

ITC[®]

S O U N D
D I F F U S I O N
H O T E L
M A N A G E M E N T

TECHNOLOGY
and DESIGN

2011





THE I.T.C. WORLD

- Young, qualified and motivated personnel, constantly trained, allow I.T.C. to provide the best solutions and services to the market.
- I.T.C. selected distributors and sales agencies abroad, and a network of 13 specialised agencies in Italy, guarantee pre and post-sales activities and constant assistance to designers, contractors and installers to illustrate product applications and provide upgrade information on manuals and installation diagrams.
- The company regularly attends specialized trade shows.
- The Technical Department supports clients in their search for the most appropriate solution in terms of products, performance and costs.
- Whether you install simple sound diffusion systems in private houses, announcement systems for large malls, audio-video systems for Convention Centres or room automation systems for hotels, hospitals and nursing homes, I.T.C. IS ALWAYS WITH YOU, with the efficiency given by our deep knowledge of the market, and with a strong motivation to extend our presence worldwide. Trusted by our Clients, we are proud to be, think and act as a **"MADE IN ITALY"** company.

OUR HISTORY

Established in 1985, I.T.C. srl is dedicated to the development, manufacturing and distribution of premier audio and hotel room automation products.

The endless search for new technologies, the constant control over quality of products and services provided, have made I.T.C. a leading company in the market of sound reinforcement, multimedia and building automation systems.

THE COMPANY

The Company's headquarters are located in Recanati (Province of Macerata), Regione Marche, Central Italy. The area hosts small and medium-sized companies that play a key role in the development and realisation of large industrial projects.

The background is a vibrant green with a complex, layered design. It features broad, sweeping, wavy bands of varying shades of green that create a sense of movement and depth. Overlaid on these bands is a faint, semi-transparent grid of small squares, reminiscent of a digital or pixelated aesthetic. The overall effect is modern and tech-oriented.

www.itcaudio.com

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PA-100V

LEONARDO

RACK

NEW MIXERS/AMPLIFIERS

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PA-100V COMPONENT

MICROPHONES

MOBILE KIT

NEW 100V SPEAKERS

PA-100V

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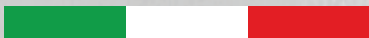
LEONARDO

***Control and monitoring system for PA,
announcements and evacuation systems
in accordance with***

CEI 100-55 · EN 60849 · EN 54-16



MADE IN ITALY



LEONARDO

INTRODUCTION

The EN 60849 Standard, whose title is "ELECTROACOUSTIC SYSTEMS APPLIED TO EMERGENCY SERVICES", establishes the technical criteria to be adopted in systems and equipment used to manage announcements for a quick and smooth evacuation of buildings in case of emergencies. A typical example is an emergency announcement system to be activated in case of fire.

Local laws and regulations establish the kind of buildings in which such a system is required.

Generally they are:

- Shopping Malls
- Schools
- Underground Stations
- Hospitals and Nursing Homes;
- Theatres, etc..

In order to comply with the regulations, the sound reinforcement system must provide the following main functions (for more detailed information refer to the EN60849 contents):

It must:

- monitor the operation of amplifiers;
- control the efficiency of speaker lines;
- broadcast emergency announcements in manual and automatic mode;
- monitor the operation of the emergency microphone unit;
- activate backup amplifiers in case of malfunctions of the operating amplifiers;
- ensure the intelligibility of emergency messages regardless of the background noise present in the environment;
- generate alarm messages preceded by a warning signal, for a duration ranging from 4 to 10 seconds;
- in case of use of pre-recorded messages, they must be stored in non-volatile memory and monitored so as to ensure their availability if necessary;
- activate the emergency announcement system within 3 seconds from alarm detection;
- monitor the presence of the emergency pre-recorded messages in the local solid-state audio memory module;
- be able to broadcast different kinds of emergency messages, in case multiple speaker lines shall be served.

A backup power supply must be provided to guarantee full operation of the system in case of black-out of mains power failure, for at least 30 minutes in case of emergency, and for 24 hrs, when in stand-by.

NOTE: the UNI EN 54-16 Standard regards the specifications of the equipment for voice alarm systems when they are part of fire detection

OPERATING PRINCIPLE OF LEONARDO SYSTEM

LINE DIAGNOSTICS

The **LEONARDO SYSTEM** has a modular structure and requires a zone module for each speaker line. The zone modules are housed in the Switching Unit. The diagnostic system injects a 22KHz pilot tone in the amplification chain. The presence of the pilot tone is constantly detected at the amplifier output and at the end of the speaker line. The absence of the pilot tone in either or both points determines the following behaviours of the Leonardo system:

1. Absence of the pilot tone at the amplifier output (amplifier failure):
 - switch-on of failure warning light on front panel of the Switching Unit;
 - activation of an acoustic signal in the Central Unit;
 - activation of a failure message on the display of the Central Unit and of the remote microphone units;
 - event storage in the Central Unit log, and print if a printer is connected to the serial port;
 - switching of the speaker line to the backup amplifier, if available.
2. Absence of pilot tone at the end of the speaker line (line failure):
 - switch-on of failure warning light on front panel of the Switching Unit;
 - activation of an acoustic signal in the Central Unit;
 - activation of a failure message on the display of the Central Unit and of the remote microphone units;
 - event storage in the Central Unit log, and print if a printer is connected to the serial port;

BACKUP AMPLIFIERS

One or two backup amplifiers can be connected to the **LEONARDO** switching unit.

In case of failure, if only one backup amplifier is connected, all the zone modules housed in the Switching Unit will switch their audio inputs and speaker lines on to the backup amplifier. The simultaneous failure of multiple amplifiers is statistically unlikely. However, in such a case, the backup amplifier must be dimensioned suitably to cover the total power requested by all the lines.

Two backup amplifiers can be connected to guarantee a better power distribution, in case of failure of multiple amplifiers. In such a case, the switching unit will divide the zone modules in two groups with 4 modules each. In case of amplifier failures of zones 1 to 4, the speaker lines will be connected to the first backup amplifier. In case of amplifier failures of zones 5 to 8, the speaker lines will be connected to the second backup amplifier.

It is recommended to provide at least one backup amplifier for each Switching Unit installed.

It must be noted that, although the lines are connected to the backup amplifier to guarantee the operation of the system, the failure signal will remain and maintenance must be carried out to restore the system to normal operation, in compliance with the provisions of law.

The zone modules that detect a failure of the zone amplifier will switch to the backup amplifier, but will not be available for any kind of configuration until normal operation has been restored.

FEEDBACK CONTROL LOOP

The feedback line is necessary to check the speaker line continuity. For an effective control, the speaker installation must be organised in such a way that there is only one line that reaches all speakers without shunts ("daisy chain" connection). Starting from the zone module the first speaker must be connected, then the second speaker, etc. until the last speaker of the line, from which the pair of wires of the feedback loop must start. This system detects interruptions or short circuits on the line in compliance with point "j" of paragraph 5.3 of the EN 60849 standard.

The failure of a line circuit is detected and signalled by the diagnostics system.

In case of line interruption, the speakers that remain connected to the area module will continue to be powered regularly (i.e.: interruption of the line from a specific point onwards).

The system does not detect the failure of a single speaker (this condition not being required by the standard) unless this results in a strong line impedance reduction with consequent signal attenuation which could cause the fall of the pilot tone.

NOTES ON EMERGENCY SPEAKER LINES

Usually, not all the speaker lines of an audio system are dedicated to broadcast emergency messages. Given the fact that emergency speaker lines should be designed in such a way to guarantee operation also in critical conditions, which involve additional costs (steel wire pipes, speakers with anti-flame dome and thermal fuse), it is recommended to dedicate a few lines only to broadcast emergency messages, with a sufficient number of speakers to cover the entire space. This would be economically convenient in installations with a high number of lines, saving on backup amplifiers and energy costs, and consequently in the dimension of the uninterruptible power system. Another possibility could be to make a mixed installation, using Leonardo to manage emergency lines only.

CENTRAL UNIT

CSE

Code 1100-101010



The Central Unit is used to manage and control the components of the system and set the operation parameters. It communicates with the Switching Units and the Microphone Units for exchanging of data and audio signals. The Central Unit is provided with a backlit LCD to display system functions and parameters, 5 functional keys to scroll the menus and set operational parameters, a chip-card reader to protect the access to the configuration parameters, 3 led lights for immediate status display of main functions, RJ12 double socket for connecting the remote microphone units, RJ45 priority input for the emergency microphone unit, 2 RCA audio inputs for external sound sources (Tuner, CD, etc.), 1 RCA audio input for an external message source (commercials, jingles, advertising), 1 built-in pre-recorded message sound card, 1 RS232 serial port for connection to PC or serial printer, 6 inputs for remote alarm activation. The access to the system configuration menu can be protected by means of a chip card (Key-Card) with a univocal code, to avoid modifications by unauthorized persons. In addition to the 6 alarm inputs, another 92 "virtual" alarm inputs are available, which become "physical" when associated to the zone module inputs. "Virtual" inputs can be activated manually from the Central Unit front panel, from the emergency microphone unit or by means of a PC, when connected through the serial port. The Central Unit is configured by means of a PC and the specific "SWL" software. The PC also works as a powerful additional remote control console and allows for continuous management and storage of events (alarms and fault messages). As an alternative, a serial printer can be used instead of the PC for immediate printing of the event in progress. Through the PC it is possible to define areas (an area is a group of zones), select one out of two background music sources for each zone or area, adjust volume for either music, voice and message, per each zone or area, and configure the alarm inputs in order to associate each input with a specific emergency message and a specific zone or area for broadcasting. Emergency messages are stored by default in a solid state memory, in compliance with the regulations, and cannot be altered by an external user. In case of system crash, or malfunctioning of the central unit, the digital will be by-passed and emergency announcements can be made manually from the emergency microphone unit. Suitable to rack installation: size 2 r.u.

TECHNICAL SPECIFICATIONS

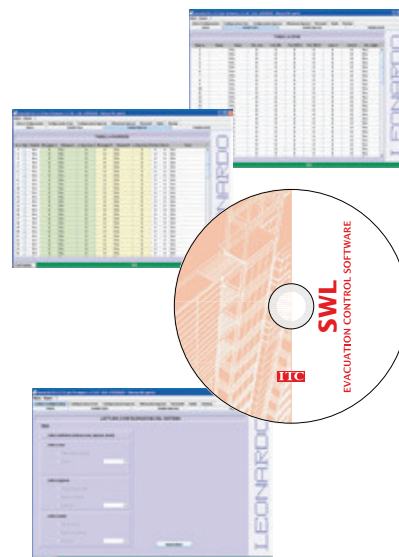
AUX input sensitivity	+9dBu
AUX input impedance	20KΩ
MSG2 input sensitivity	+0dBu
MSG2 input impedance	20KΩ
TEL input sensitivity	+0dBu
TEL input impedance	20KΩ
Remote inputs	4 balanced 2,2KΩ, 2 unbalanced N.C.
Controllo remoto	RS232 serial port (PC/printer)
Max. no. of remote microphone units	99 (including the Emergency Microphone)
Power supply	230Vac - 50÷60Hz
Power consumption	15VA
Dimensions (WxHxD)	483x89x265mm
Colour	black
Weight	3,8Kg



CONFIGURATION AND MANAGEMENT SOFTWARE

SWL

Code 1100-102010



The SWL software package integrates the Leonardo System and it's necessary to carry out the basic system configuration.

As an additional feature, it allows for management and constant monitoring of system operation, making the PC a powerful remote console which interacts with the devices wherever they are installed.

The software requirements are a PC with Windows XP Professional operating system, and a monitor resolution of 1024*768 pixels minimum. The PC must be provided with RS232 serial port for connection to the Central Unit via a male/female link-type (pin to pin) serial cable.

For distances longer than 16 mts a RS232-RS422 converter can be used.

A large number of specific functions are provided to set up the software according to the operator preferences and/or installation requirements. Functions include: language selection, COM serial port selection, connection monitor on-off selection, software/firmware alignment, automatic setting of time and hour, activation of automatic storage of fault/alarm events, activation of warning pop-up messages, management of access privileges for users, and data export into sharable files.

The software provides a user-friendly graphic interface with intuitive control panels for each setting.

SWITCHING UNIT

C8MSE

Code 1100-111010



TECHNICAL SPECIFICATIONS

No. of slots	8
Max. no. of units in sequence	10
Connection	2x RJ45 - UTP CAT5e cable
Power supply	230Vac - 50÷60Hz
Absorption (with 8 modules)	50VA
Dimensions (LxHxD)	483x133x220mm
Colour	black
Weight (with 8 modules)	5,6Kg

The Switching Unit is managed by the CSE Central Unit and is designed to house the zone modules for distribution of audio signals over 8 zones per each unit. Max. 10 Switching Units can be connected in sequence, for a total of 80 zones. Connections with the Central Unit are made with Cat.5 twisted-pair patch cords. All connections are monitored for integrity.

The Switching Unit is provided with eight slots for insertion of zone modules, leds on front panel for immediate status display of each zone module, audio/data bus module for connection with Central Unit, extension connector for additional units, connection module for backup amplifiers, and 230Vac mains power module.

Suitable to rack installation with Item KSA

Size: 3 r.u.

ACCESSORY

BLIND PANEL

PVM

Code 1100-112010

Blind panel made of black anodized aluminium for unused slots.

ZONE MODULE

MZSE

Code 1100-121010



The zone module has been designed to be housed in the Switching Unit and is provided with specific diagnostic electronics which monitors the operation of the amplification chain and, in case of fault of the amplifier, switches the line on to the backup amplifier. Control is individual on each single amplifier and each single speaker line. Breakdown or short circuits of the speaker line are also detected. Faults detected by the module are immediately sent over to the CSE Central Unit that activates alarm sound and messaging. The zone module includes an additional alarm input and an output relay contact for generic use. On-board micro-switches are provided for code configuration, diagnostics on-off over amplifier and speaker line, backup service on-off, relay activation. The zone module provides connections for standard 100V power amplifiers (input and output), 100V speaker line and return loop, 0-NC-NA output relay contacts, one additional alarm input and the background noise detection unit model MRR.

TECHNICAL SPECIFICATIONS

Audio signal level at AMP IN output	+0dBu
Amplified power applicable to AMP OUT input	max 500W
Pilot tone frequency	>20KHz
Internal connection	64 pin pcb-to-pcb DIN connector
Remote input	2,2KΩ balanced
Contatti RELAY	max 24Vdc 1A
Power supply	12Vdc
Current consumption	300mA
Dimensions (WxHxD)	202x38x104mm
Colour	black
Weight	0,3Kg

BACKGROUND NOISE DETECTION UNIT

MRR

Code 1100-122010

The background noise detection unit can be used in situations when the presence of large public, with consequent increase of environmental noise, requires the automatic adjustment of music and message volume level. When the environmental noise increases, the system increases the sound level by one step, up to a maximum of three. The unit must be installed in a recessed box or a wall box, at a distance from speakers, to avoid feedback. It connects and is powered by the zone module by means of a twisted-pair Cat. 5 cable.

The detection unit includes a built-in electret microphone, and provides connections for and optional external electret microphone and for an optional power supply source.

REMOTE MICROPHONE UNIT

BMSE

Code 1100-131010



The Remote Microphone Unit is the standard user terminal for broadcasting voice announcements, either on specific zones or areas (Selective Call), or throughout the whole building (General Call).

Up to 99 microphone units can be connected to the CSE Central Unit.

Since both audio and data are digital, a simple twisted-pair Cat.5 cable connects the microphone units to the CSE. Just one line is necessary: the microphone units are provided with LINE IN – LINE OUT connectors for a daisy-chain connection.

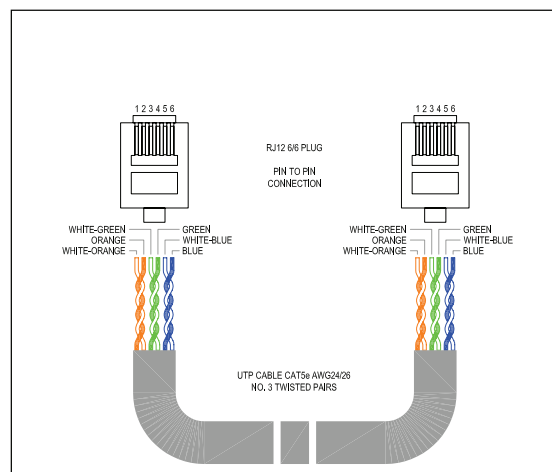
The unit includes a gooseneck electret microphone with “on-air” light, flat keypad for call type selection, backlit LCD to display operations in progress, double RJ12 bus socket for LINE IN-LINE OUT connection, internal microswitch for code configuration and socket for wall power adapter (supplied).

Available in desktop version with aluminium body, ABS sides and built-in feet.

Grey/black Colour.

TECHNICAL SPECIFICATIONS

Microphone	gooseneck - electret
Frequency response	50÷16000Hz
Pick-up pattern	cardioid
Sensitivity	-45dB
Impedance	1000Ω
Power supply	12Vdc o 12Vac
Current consumption	100mA
Base dimensions (WxHxD)	206x550x130mm
Microphone stem length	485mm
Colour	black/grey
Weight	1,9Kg



EMERGENCY MICROPHONE UNIT

PMSE

Code 1100-141010

**CONTROL BOARD FOR
EMERGENCY MICROPHONE UNIT**

QP44819

Code 1100-142010



The Emergency Microphone Unit provides the same functions as the standard microphone unit. In addition, it includes a self-diagnostics electronics which monitors the operation of the microphone and cables and the integrity of the connection to the C8MSE unit, in compliance with the EN60849 Standard. When used in "emergency mode", all calls generated by the emergency microphone have a priority over all other users. Also, when in "emergency mode", it is possible to activate any "physical" or "virtual" alarm input from the microphone keypad. In compliance with the EN60849 Standard, the emergency microphone works even in case of malfunction of the ES-CE unit, provided that the power supply is still present. To make these functions possible the emergency microphone requires an additional connection towards the CSE, by means of a twisted-pair Cat.5 cable. The unit is provided with a dynamic microphone with push-to-talk button and coiled wire, a flat keypad for call type selection, backlit LCD to display operations in progress, internal micro-switch for code setting, socket for connection of an external wall power adapter (supplied), double RJ12 Bus socket for LINE-IN LINE-OUT connection for standard operation, RJ45 socket for priority emergency line and switch with safety lock for selection of operation mode.

Only one emergency microphone unit can be connected to the Leonardo CSE Central Unit.

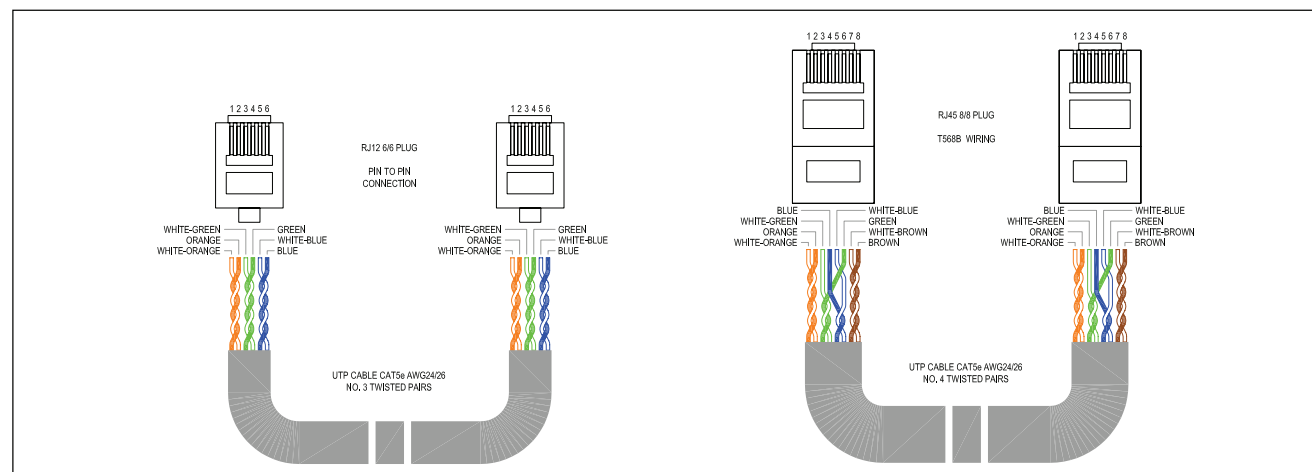
Aluminium body with painted back panel, suitable for wall installation in Gewiss-type recessed box item 44819 (supplied separately, item QP44819).

TECHNICAL SPECIFICATIONS

Microphone	hand-held dynamic
Frequency response	200-5000Hz
Pick-up patter	omnidirectional
Sensitivity	-76dB
Impedance	500Ω
Power supply	12Vdc/12Vac
Current consumption	100mA
Dimensions (WxHxD)	183x270x108mm
Microphone cable length	400±800mm
Colour	red/grey
Weight	2,2Kg

TECHNICAL SPECIFICATIONS

Door	transparent
Lock	triangle key
Accessories	frame
IP protection degree	55
Dimensions (WxHxD)	236x316x135mm
Material	GWPLAST120
Colour	grey RAL 7035
Weight	2,1Kg



UNINTERRUPTABLE POWER SUPPLY

UPS1

Code 1100-151010

UNINTERRUPTABLE POWER SUPPLY

UPS2

Code 1100-152010

UNINTERRUPTABLE POWER SUPPLY

UPS3

Code 1100-153010



On-line double conversion technology with microprocessor digital control to guarantee maximum performance and high reliability. Provided with backlit display for easy reading and low-noise cooling fan.

The UPS includes a central unit provided with internal batteries and a battery-box for 35-minute autonomy that can be extended up to 240 minutes.

Suitable to rack installation.

Composition of the items:

Central unit - size 2 R.U.

Battery unit - size 3 R.U.

TECHNICAL SPECIFICATIONS

INPUT:
Input voltage 230Vac
Input tolerance 160÷300Vac monophase+/earth
Input frequency 50÷60±4Hz
Input power factor > 0,95
Input protection switch

OUTPUT:
Power 1000VA / 700W
Output voltage 220/230/240Vac rated
Output tolerance ±2%
Output T.H.C. <3% linear load- <4% THD linear load
<6% non-linear load- <7% THD non-linear load

AC to AC efficiency 85%
DC to DC efficiency 83%
Crest factor 3:1
Battery-started YES
Output frequency 50Hz ± 0,2Hz

BATTERY:
Typical autonomy 35 minutes
Battery type lead w/o maintenance 12Vdc
No. of batteries in central unit no. 3 - 7AH batteries
No. of batteries in battery pack no. 3 - 7AH batteries

ENVIRONMENT:
Operating temperature 0÷40°C
Humidity 20% to 90% w/o condensation
Noise level <45dBA@1metre

WEIGHT:
Central unit 14Kg
Battery box 12,5Kg

MECHANICAL FEATURES:
Dimensions of central unit 440x88x490mm
Dimensions of battery box 440x88x490mm

TECHNICAL SPECIFICATIONS

INPUT:
Input voltage 230Vac
Input tolerance 160÷300Vac monophase+/earth
Input frequency 50÷60±4Hz
Input power factor > 0,95
Input protection switch

OUTPUT:
Power 2000VA / 1400W
Output voltage 220/230/240Vac rated
Output tolerance ±2%
Output T.H.C. <3% linear load- <4% THD linear load
<6% non-linear load- <7% THD non-linear load

AC to AC efficiency 85%
DC to DC efficiency 83%
Crest factor 3:1
Battery-started YES
Output frequency 50Hz ± 0,2Hz

BATTERY:
Typical autonomy 30 minutes
Battery type lead w/o maintenance 12Vdc
No. of batteries in central unit 0
No. of batteries in battery pack no. 6 - 7AH batteries

ENVIRONMENT:
Operating temperature 0÷40°C
Humidity 20% to 90% w/o condensation
Noise level <50dBA@1metre

WEIGHT:
Central unit 10Kg
Battery box 18,5Kg

MECHANICAL FEATURES:
Dimensions of central unit 440x88x490mm
Dimensions of battery box 440x88x490mm

TECHNICAL SPECIFICATIONS

INPUT:
Input voltage 230Vac
Input tolerance 160÷300Vac monophase+/earth
Input frequency 50÷60±4Hz
Input power factor > 0,95
Input protection switch

OUTPUT:
Power 3000VA / 2100W
Output voltage 220/230/240Vac rated
Output tolerance ±2%
Output T.H.C. <3% linear load- <4% THD linear load
<6% non-linear load- <7% THD non-linear load

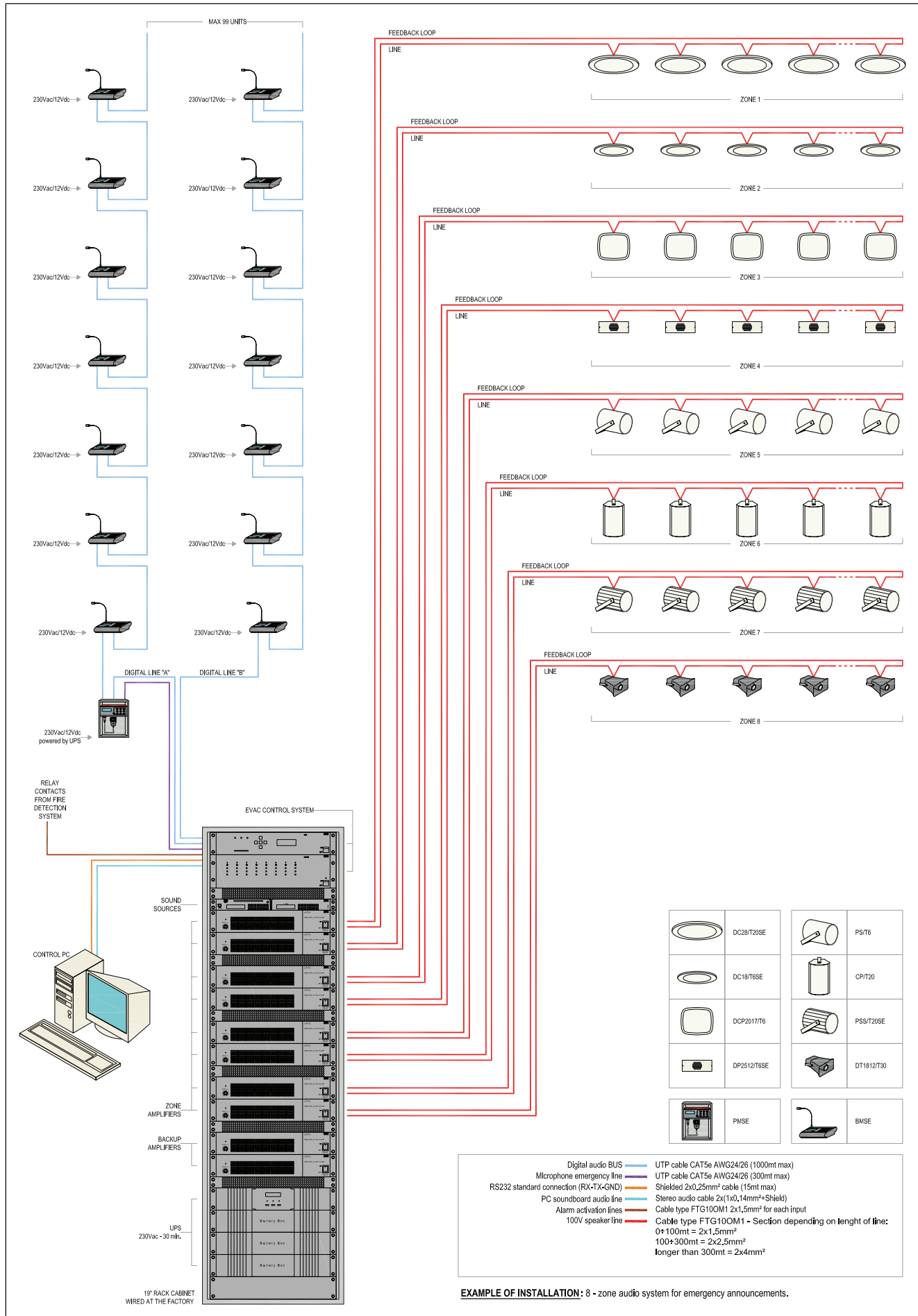
AC to AC efficiency 88%
DC to DC efficiency 83%
Crest factor 3:1
Battery-started YES
Output frequency 50Hz ± 0,2Hz

BATTERY:
Typical autonomy 30 minutes
Battery type lead w/o maintenance 12Vdc
No. of batteries in central unit 0
No. of batteries in battery pack no. 8 - 7AH batteries

ENVIRONMENT:
Operating temperature 0÷40°C
Humidity 20% to 90% w/o condensation
Noise level <55dBA@1metre

WEIGHT:
Central unit 11Kg
Battery box 18,5Kg

MECHANICAL FEATURES:
Dimensions of central unit 440x88x490mm
Dimensions of battery box 440x88x490mm



19" RACK CABINETS



Sheet metal structure complete with bottom side with flange for cables, lid and lateral sides with ventilation slots. 19" system inner frame (482.6 mm) for loads up to 500 kg. Earthing on bottom and sides. IP30 protection degree. Complete with 4 feet, with rubber base - adjustable height. RAL7035 finish.

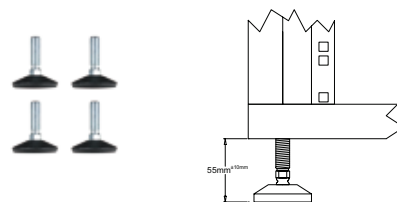
Accessories supplied on demand:

- tempered glass front door with metal frame, right/left reversible closure, key lock;
- metal back panel;
- set of 4 revolving wheels.
- KZ - Set of height base for rack cabinet

SET OF FEET FOR RACK CABINET

KP

Code 1200-111010

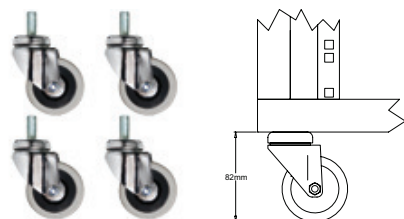


Set of 4 feet with rubber base - adjustable height. (supplied as standard except for the AR42)

SET OF WHEELS

KR

Code 1200-112010

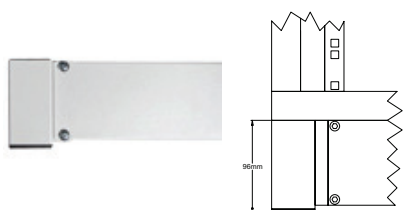


Set of 4 revolving wheels, \varnothing 60 mm, for loads up to 50 Kg. each (available for all the rack cabinets except for the AR42)

BASE

KZ

Code 1200-113010



Set of 4 height bases with plastic supports and closing panels (available for all the rack cabinets)

19" RACK CABINET

AR12 Code 1200-101120
Dimensions: 600x593x600mm

AR20 Code 1200-101200
Dimensions: 600x949x600mm

AR24 Code 1200-101240
Dimensions: 600x1126x600mm

AR30 Code 1200-101300
Dimensions: 600x1393x600mm

AR36 Code 1200-101360
Dimensions: 600x1670x600mm

AR42 Code 1200-101420
Dimensions: 600x1947x600mm

DOOR WITH LOCK

PAR12 Code 1200-121120

PAR20 Code 1200-121200

PAR24 Code 1200-121240

PAR30 Code 1200-121300

PAR36 Code 1200-121360

PAR42 Code 1200-121420

BACK PANEL

PCP12 Code 1200-131120

PCP20 Code 1200-131200

PCP24 Code 1200-131240

PCP30 Code 1200-131300

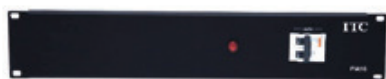
PCP36 Code 1200-131360

PCP42 Code 1200-131420

RACK MOUNT ACCESSORY KITS

PA16

Code 1200-141010



General power on-off switch for all devices in the rack. Include a bipolar magnetothermic switch to provide short circuit and overload protection. 220V mains indicator light. Size: 2 r.u.

TPA8

Code 1200-142010



Power socket unit with 8 sockets (max. 3 kVA).

PM

Code 1200-143010



Panel for local monitoring of audio sources. Complete with 3W elliptical speaker and volume control. Size: 2 units.

PFC1

Code 1200-151010

PFC2

Code 1200-151020

PFC3

Code 1200-151030

PFC4

Code 1200-151040



Blind panels for rack front closure. 1, 2, 3, 4 unit

PFA1

Code 1200-152010



Air-cooling panel - 1 unit

PFP1

Code 1200-153010



Through panel for wires - 1 unit

KSR

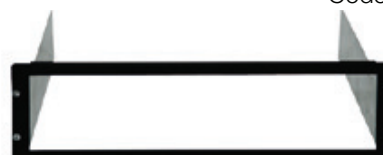
Code 1200-241010



Rack mount kit for ITC tuner model SR. Size: 2 units.

KMCD

Code 1200-242010



Rack mount kit for ITC multi-CD player model MCD. Size: 3 units.

KMRX1

Code 1200-231010



Rack mount shelf for one ITC wireless microphone receiver model RTI/RTL. Size: 1 unit.

KMRX2

Code 1200-231020



Rack mount shelf for two ITC wireless microphone receivers ITC model RP W/RP WL. Size: 1 unit.

PA1

Code 1200-161010

PA2

Code 1200-161020

PA3

Code 1200-161030



Metal shelf for installation of devices not designed for rack mounting. Support shelf: 1, 2, 3 unit.

CS2

Code 1200-181020



Rack drawer with key. Size: 2 units.

PS1

Code 1200-171010



Sliding support shelf. Size: 1 unit.

KMA1

Code 1200-221010

KMA2

Code 1200-221020

KMA3

Code 1200-221030



Rack mount kit for mixers/amplifiers size 1-2-3 units. Please specify the device model in case this item is ordered separately

KMR2

Code 1200-223020



Rack mount kit for MP2120, UP150 and A150. Size: 2 unit.

KSA

Code 1200-211010



Support kit for rack mount of any amplifier model. One kit can hold up to 2 amplifiers

MIXER- PREAMPLIFIER

PRE6

Code 1300-406010



TECHNICAL SPECIFICATIONS

TAPE/CD input sensitivity	-34 ÷ +14dBu; 15mV ÷ 3,8V
MICRO input sensitivity	-50 ÷ -2dBu; 2,5 ÷ 500mV
Balanced input impedance	10KΩ
Phantom power supply	24Vdc
Bass control	±12dB a 60Hz
Medium control	±8dB a 700Hz
Treble control	±12dB a 10KHz
TAPE/REC output level	-4dBu; 300mV
LINK IN input level	-8dBu; 490mV
PRE output level	+2,5dBu; 1V
SEND and RETURN level	+0dBu; 775mV
PRE OUT noise channels 1÷4	-60dBu
PRE OUT noise channels 5÷6	-64dBu (w/o phantom)
PRE OUT noise AUX level	-73dBu
Response in frequency (-3 dB)	50 ÷ 17500Hz
Rating power distortion 1KHz	<1%
Signal/noise ratio micro	>60dB
Signal/noise micro AUX	>80dB
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power consumption	15VA
Dimensions (WxHxD)	443x88x234mm
Colour	black
Weight	3,2Kg

Mixer- Preamplifier with 6 electronically balanced MIC inputs with XLR 3-pole connectors, 4 of which with switchable phantom voltage. RCA connections for stereo sources at line level available at Inputs 5 and 6. Priority call function available at Input 1 through a 5-pin DIN connector for microphone units with TALK pushbutton.

Provided with: one REC output for recorder, one SEND output and one RETURN input for external sound processing devices (feed-back suppressor, equalizer, sound processor), one LINK IN input, one PRE OUT output and one ground on-off switch for "ground loop" noise suppression.

It is also provided with LED VU-meter, gain controls, separate tones and volume for each channel, general volume control.

Suitable to rack installation with item KMA2

Size: 2 r.u.

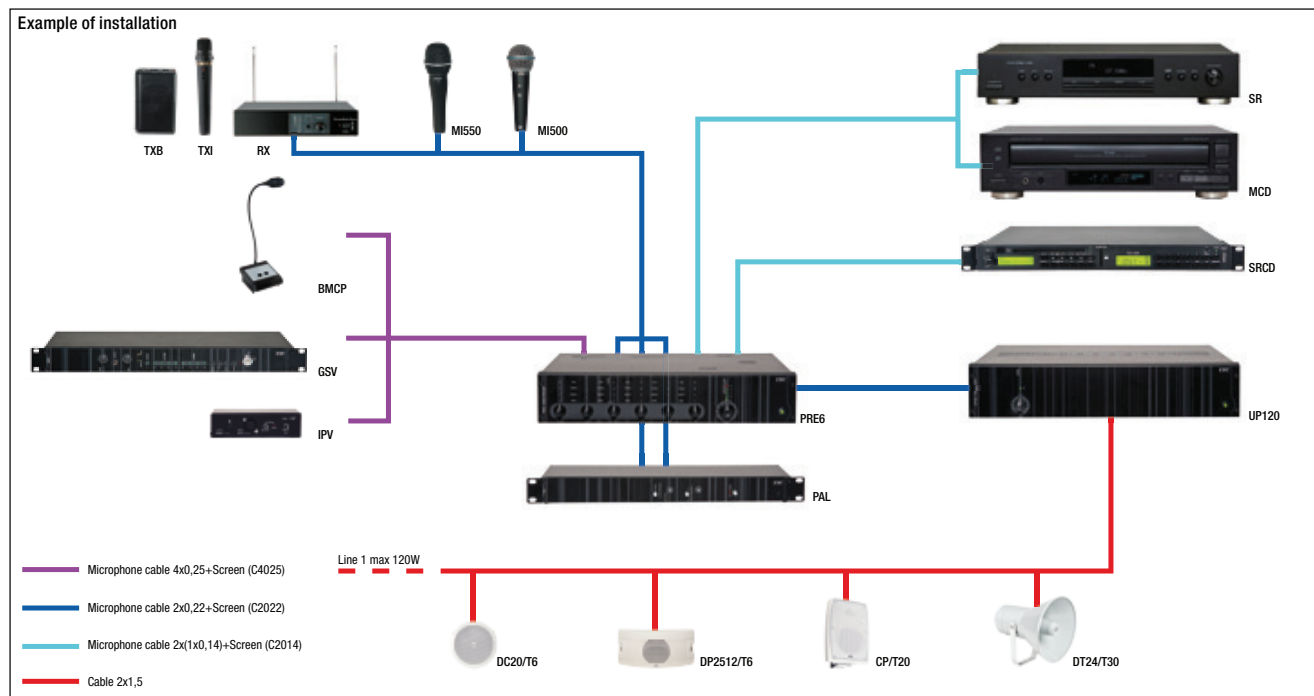
OPTIONAL ACCESSORY

2-TONE CHIME MODULE

SD

Code 1300-011010

Generates an electronic chime sound when starting a microphone call.



120W POWER AMPLIFIER - MIXER

A120

Code 1300-112010

240 POWER AMPLIFIER - MIXER

A240

Code 1300-124010



TECHNICAL SPECIFICATIONS

TAPE/CD input sensitivity	-34 ÷ +14dBu; 15mV ÷ 3,8V
MICRO input sensitivity	-50 ÷ -2dBu; 2,5 ÷ 500mV
Balanced input impedance	10KΩ
Phantom power supply	24Vdc
Bass controls	±12dB a 60Hz
Medium controls	±8dB a 700Hz
Treble controls	±12dB a 10KHz
TAPE REC output level	-4dBu; 300mV
LINK IN input level	-8dBu; 490mV
PRE output level	+2,5dBu; 1V
SEND and RETURN level	+0dBu; 775mV
PRE OUT noise channels 1÷4	-60dBu
PRE OUT noise channels 5÷6	-64dBu (w/o phantom)
PRE OUT noise aux level	-73dBu
Response in frequency (-3dB)	80 ÷ 15000Hz
Power distortion rated 1KHz	<1%
Signal/noise ratio - Micro	>60dB
Signal/noise ratio - AUX	>80dB
Rated power RMS	120W (A120) - 240W (A240)
Power MAX	180W (A120) - 360W (A240)
Speakers outputs, constant impedance	4Ω, 8Ω
Speakers output, constant voltage	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power consumption	220VA (A120) - 440VA (A240)
Dimensions (WxHxD)	443x88x276mm (A120) 443x88x360mm (A240)
Colour	black
Weight	8,8Kg (A120) - 13,8Kg (A240)

120W mixer- amplifier with 6 electronically balanced MIC inputs on XLR 3-pole connectors, 4 of which with switchable phantom voltage. RCA connections for stereo sources at line level available at Inputs 5 and 6. Priority call function available at Input 1 through a 5-pin DIN connector for microphone units with TALK pushbutton.

Provided with: one REC output for recorder, one SEND output and one RETURN input for external sound processing devices (feedback suppressor, equalizer, level processor), one LINK IN input, one PRE OUT output and one ground switch for suppression of "ground loop" noise. It is also provided with LED VU-meter, gain controls, separate tone and volume controls for each channel, general volume control.

Power outputs for lines at constant impedance and constant voltage.

Needs item KMA2 for rack installation.

Size: 2 r.u.

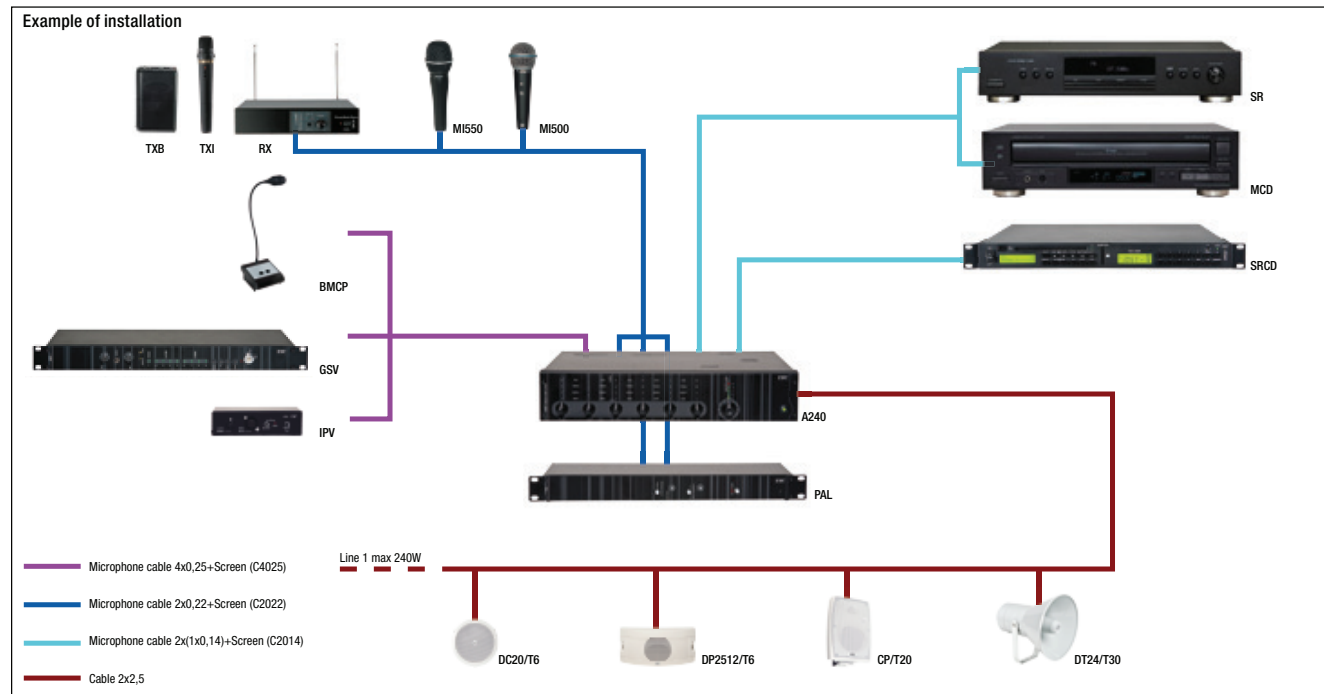
OPTIONAL ACCESSORY

2 TONE CHIME MODULE

SD

Code 1300-011010

Generation of electronic chime signal before making the microphone call.



150W POWER AMPLIFIER - MIXER

A150E

NEW

Code 1300-115020

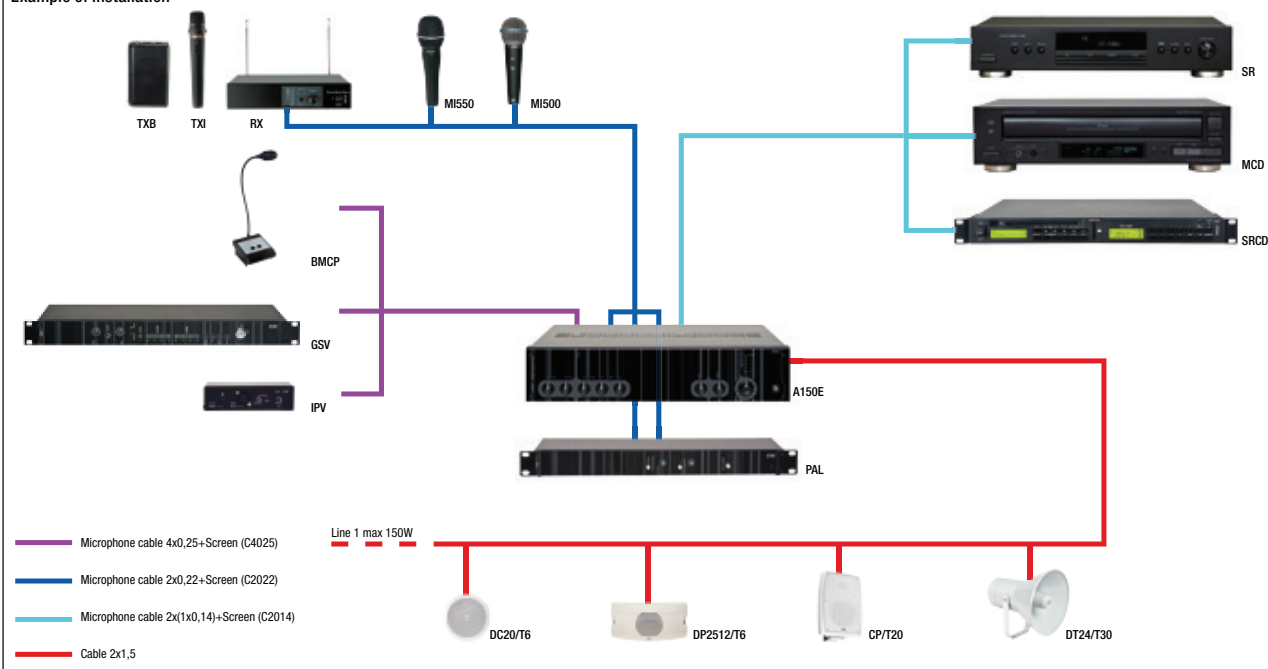


TECHNICAL SPECIFICATIONS

AUX input sensitivity	-34 ÷ +14dBu; 15mV ÷ 3,8V
MICRO input sensitivity	-50 ÷ -2dBu; 2,5 ÷ 500mV
Balanced input impedance	10KΩ
Phantom power supply	24Vdc
Bass control	±12dB a 60Hz
Treble control	±12dB a 10KHz
TAPE/REC output level	-4dBu; 300mV
PRE OUT output level	+2,5dBu; 1V
SEND and RETURN level	+0dBu; 775mV
PRE OUT noise channels 1÷4	-60dBu
PRE OUT noise AUX level	-73dBu
Response in frequency (-3 dB)	80 ÷ 15000Hz
Rating power distortion 1KHz	<1%
Signal/noise ratio micro	>60dB
Signal/noise micro AUX	>80dB
Rating power RMS	150W
I.H.F. power	225W
Speaker outputs, constant imp.	4Ω, 8Ω
Speaker outputs, constant volt.	70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	275VA
Dimensions (WxHxD)	443x88x310mm
Colour	black
Weight	9,0Kg

150W amplifier with four electronically balanced MIC inputs on 3-pin XLR connectors (or 6.3mm TRS Jacks) with phantom power and micro-switch ON/OFF control, an AUX input on RCA connectors for medium and high-level stereo line sources. Input 1 also includes 5-pin DIN connector for use with microphone bases for priority calls and activation of integrated electronic ding-dong signal. Features: one REC output for recorder, a SEND output and a RETURN input for external sound equipment (antilarsen, equalizer, level processor), one PRE-OUTPUT. Also has separate volume controls for each channel, general tone controls, master volume and LED VU meter. Power outputs for constant impedance and constant voltage lines. Needs KMR2 for rack assembly. Dimensions: 2 UNITS

Example of installation



30W POWER AMPLIFIER - MIXER

A30

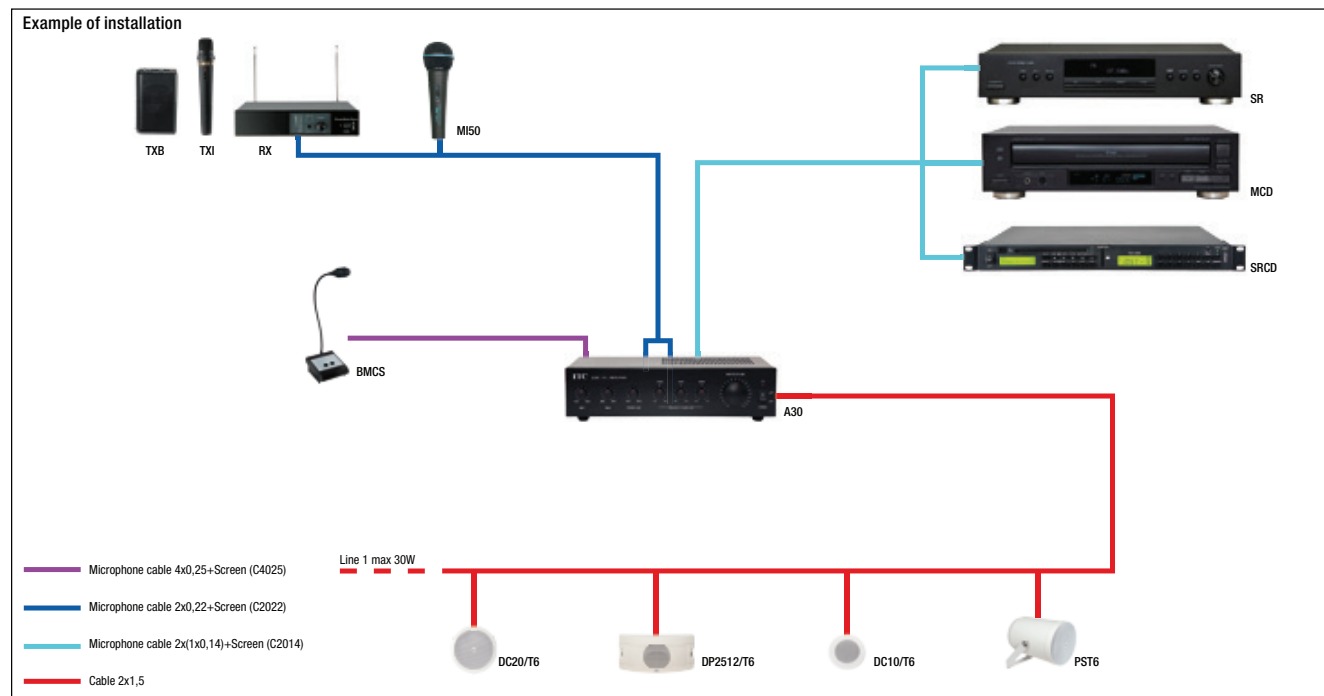
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TECHNICAL SPECIFICATIONS

AUX input sensitivity	-20dBu; 77mV
MICRO input sensitivity	-55dBu; 14mV
Balanced input impedance	10KΩ
Bass control	±10dB a 150Hz
Medium control	±10dB a 1KHz
Treble control	±10dB a 6KHz
Response in frequency (-3 dB)	100 ÷ 18000Hz
Rating power distortion 1KHz	<1%
Signal/noise ratio	>55dB
Rating power RMS	30W
I.H.F. power	45W
Speaker outputs, constant imp.	4Ω, 8Ω, 16Ω
Speaker outputs, constant volt.	100V
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	55VA
Dimensions (WxHxD)	320x80x190mm
Colour	black
Weight	5,0Kg

30W amplifier with two unbalanced microphone inputs with 6.3mm jack connectors and one AUX/Phono input. Also provided with separate volume controls for each channel, general tone controls and master volume. Power outputs for lines at constant impedance and constant voltage. Desktop cabinet.



120+120W MIXER AMPLIFIER/MULTIMEDIA PLAYER

MP2120

Code 1300-212010

NEW

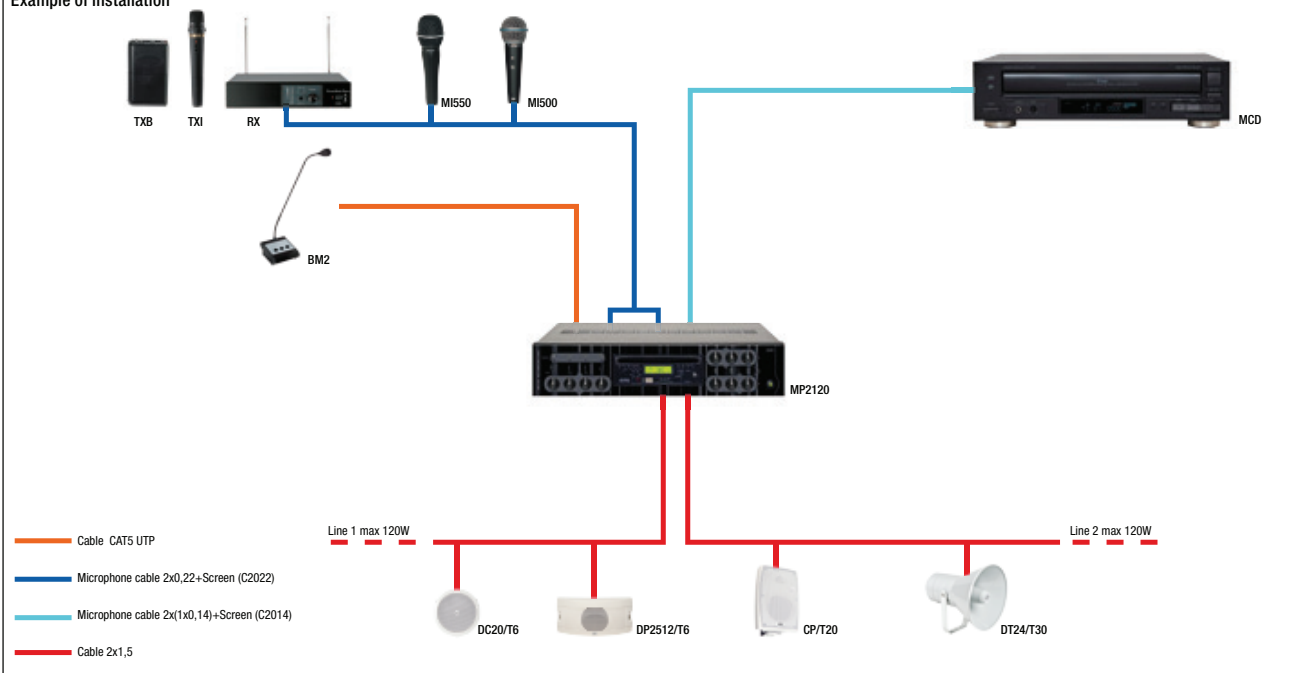


TECHNICAL SPECIFICATIONS

AUX input sensitivity	-34 ÷ +14dBu; 15mV ÷ 3,8V
MICRO input sensitivity	-50 ÷ -2dBu; 2,5 ÷ 500mV
Balanced input impedance	10KΩ
Phantom power supply	24Vdc
Bass control	±12dB a 60Hz
Treble control	±12dB a 10KHz
PRE OUT output level	+2,5dBu; 1V
Response in frequency (-3 dB	80 ÷ 15000Hz
Rating power distortion 1KHz	<1%
Signal/noise ratio	>60dB
Source	AM/FM digital tuner, auto tune, CD audio reader, MP3, USB, SD, MMC; MP3 standard file, LCD display
Rating power RMS	2x120W
I.H.F. power	2x180W
Speaker outputs, constant imp.	4Ω
Speaker outputs, constant volt.	70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	450VA
Dimensions (WxHxD)	443x88x380mm
Colour	black
Weight	12,0Kg

Amplified 120W+120W dual channel receiver with two electronically balanced MIC inputs on 3-pin XLR connectors with sensitivity control and phantom power and micro-switch ON/OFF control, an AUX input on RCA connectors for medium and high-level stereo line sources, a TEL input with adjustable sensitivity control and vox control, an electronically balanced MC/LINE input on RJ45 jack connector for microphone base for selective priority calls and activation of integrated electronic ding-dong signal. Features two PRE-OUTPUTS. Also features separate volume controls for each input channel, general tone controls and master volume for each output. Digital FM/AM tuner, CD/MP3 player with USB and integrated SD/MMC card slots. Supplied with IR remote control. Electronically-controlled forced ventilation cooling. Dual power output for constant impedance and constant voltage lines. Needs KMR2 for rack assembly. Also needs KSA for proper support. Dimensions: 2 UNITS

Example of installation



DESKTOP MICROPHONE UNIT

BM2

Cod. 1800-341010

**TECHNICAL SPECIFICATIONS**

Microphone	gooseneck - electret
Frequency response	50 ÷ 16000Hz
Pick-Up Pattern	cardioid
Sensitivity	-45dB
Impedance	1000Ω
Microphone length	490mm
Power supply	24Vdc
Priority contact	yes
Zone selection	2
Cable length	5m
Connection	RJ45 plug
Material	aluminium + ABS
Dimensions	106x60x130mm
Colour	black/grey

Pre-amplified base with electret cardioid gooseneck microphone, with indicator ring, recommended for public address in combination with MP2120 receiver. Features two zone selection buttons and mechanical switch for activating microphone, all with LED status indicators. Body made from extruded aluminium, sides in ABS with incorporated feet. Complete with 5m cable with RJ45 plug connector to mixer/amplifier for 24VDC power supply.

INTERFACE UNIT

IC4/2

Code 1800-304110

**TECHNICAL SPECIFICATIONS**

Input	4 - RJ45 plug
Output	1 - RJ45 plug
Power supply	24Vdc
Dimensions (WxHxD)	140x42x70mm
Colour	black
Weight	0,8Kg

Interface for simultaneous connection of four BM2 microphone bases to priority input on MP2120 receiver. Each base retains direct connection to mixer, making priority calls to other sound sources and activating the two-tone ding-dong signal circuit, where present. Activation of any base temporarily excludes all other connections. Several interfaces may be cascaded to increase the number of bases to more than 4 (reduced to 3 bases for every interface). Metal container with four inputs and one output on RJ45 plug. Comes with external 24VDC power supply unit and 1m cable with RJ45 plug connectors.

AUTOMATIC MIXER

MA

Code 1300-311010

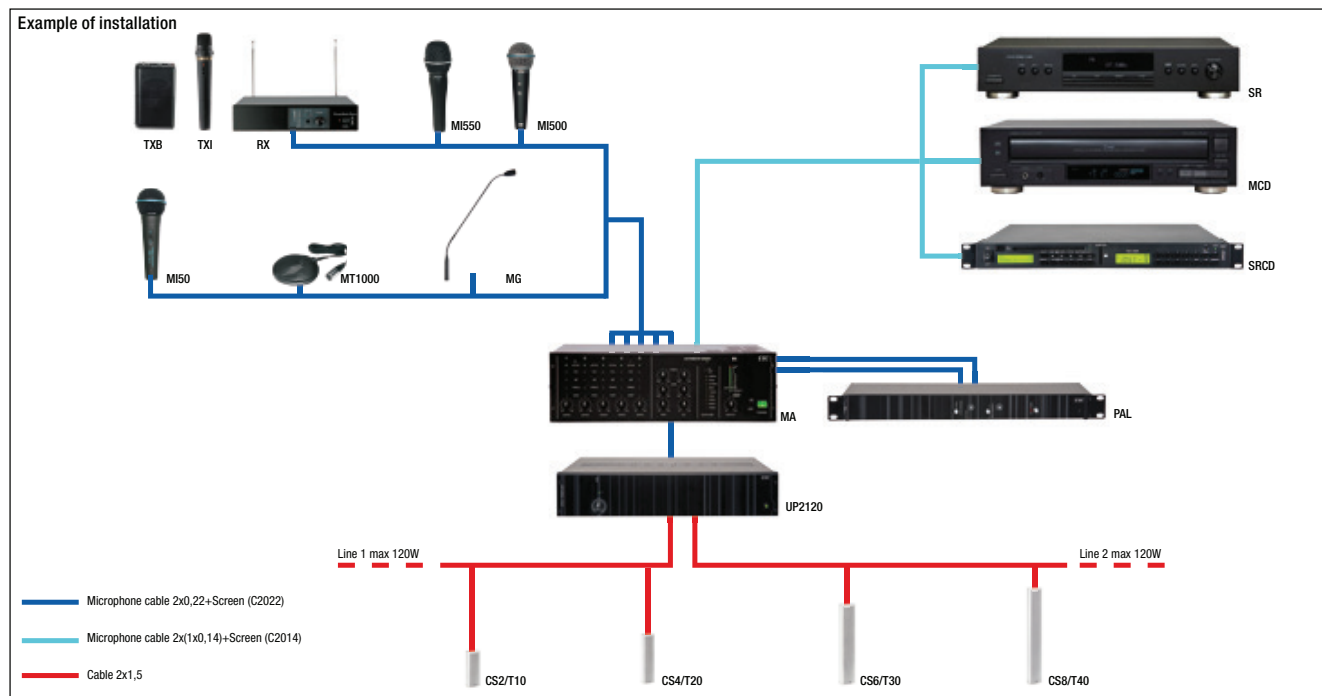


TECHNICAL SPECIFICATIONS

MICRO input sensitivity	-60dBu; 1mV
MICRO impedance	6KΩ
Maximum level	30mV ÷ 1,2V
CMRR	>55dB
Gain	30dB
THD	15dB
Low filter	150Hz; 6dB/oct
Phantom power supply	48Vdc
TAPE input sensitivity	-9dBu
CD input sensitivity	-4dBu
TAPE/CD impedance	47KΩ
RETURN input sensitivity	+3dBu
RETURN impedance	10KΩ
ORGAN input sensitivity	-57 ÷ +0dBu; 1,1 ÷ 775mV
ORGAN micro impedance	2,7KΩ unbal.
MIDI IN input sensitivity	+0dBu
MIDI IN impedance	10KΩ
PRE OUT output sensitivity	+0dBu
PRE OUT output impedance	140Ω balanced, 70Ω unbalanced
REC output sensitivity	-6dBu
REC output impedance	2KΩ unbalanced
SEND output level	+3dBu
SEND output impedance	100Ω unbalanced
Bass tones	±12dB a 70Hz
Treble tones	±12dB a 10KHz
Equalizer	315-500-700-1K-1,4K -2K-3,15K-4K-6,3KHz
Frequency response (-3dB)	26Hz ÷ 24000Hz
Signal/noise ratio	>92dB
Power supply	230Vac - 50÷60Hz
Power consumption	20VA
Dimensions (WxHxD)	436x132x333mm
Colour	black
Weight	7,0Kg

The automatic mixer considerably improves audio quality in all voice detection applications where multiple microphones are used. By attenuating microphones when not used, automatic mixers minimise background noise and reverberation, providing a clearer and more intelligible audio. The mixer activates only the interested microphones within 4 milliseconds and works with any professional microphone or wireless microphone. It is provided with: 5 electronically balanced microphone inputs with XLR 3-pole connectors with switchable phantom voltage, 1x CD input, 1x TAPE input, 1x REC output for recorder, one SEND output and one RETURN input for external sound processing devices (feedback suppressor, equalizer, level processor), 1x MIDI IN input for expansions, one PRE OUT output and one ground switch for "ground loop" noise suppression. It is also provided with LED VU-meter, gain controls, tones, volume and threshold controls separate for each channel, general volume control. Needs item KMA3 for rack mounting.

Size: 3 r.u.



120W POWER AMPLIFIER

UP120

Code 1400-112010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu; 775mV
Input impedance	10KΩ
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rating power RMS	120W
Power I.H.F.	180W
Speaker outputs, constant imp.	4Ω, 8Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power consumption	220VA
Dimensions (WxHxD)	443x88x256mm
Colour	black
Weight	7,5Kg

Monophonic power amplifiers. Features 1x balanced input and 1x Link output with jack connectors, power on/off LED and general volume control. Speaker outputs for lines at constant impedance and at constant voltage. Power supply from mains 230Vac – 50÷60Hz or 24Vdc battery. Needs item. KMA2 for rack installation. Size: 2 r.u.

240W POWER AMPLIFIER

UP240

Code 1400-124010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu; 775mV
Input impedance	10KΩ
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rating power RMS	240W
Power I.H.F.	360W
Speaker outputs, constant imp.	4Ω, 8Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power consumption	440VA
Dimensions (WxHxD)	443x88x340mm
Colour	black
Weight	12,1Kg

Monophonic power amplifier. Features 1x balanced input and 1x Link output with XLR connectors, power on/off LED and general volume control. Cooling system by electronically controlled fan for forced ventilation. Speaker outputs for lines at constant impedance and lines at constant voltage. Power supply from mains 230Vac – 50÷60Hz or 24Vdc battery. Needs item KMA2 for rack installation. Size: 2 r.u.

500W POWER AMPLIFIER

UP500

Code 1400-150010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu; 775mV
Input impedance	10KΩ
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rating power RMS	500W
Power I.H.F.	700W
Speaker outputs, constant imp.	2Ω, 4Ω, 8Ω, 16Ω
Speaker outputs, constant volt.	50V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power consumption	800VA
Dimensions (WxHxD)	436x132x304mm
Colour	black
Weight	21,0Kg

Monophonic power amplifier. Features 1x balanced input and 1x Link output with XLR connectors, power on/off LED and LED VU-meter, general volume control, and bass and treble controls. Cooling system by electronically controlled fan for forced ventilation. Speaker outputs for lines at constant impedance and lines at constant voltage. Power supply from mains 230Vac – 50÷60Hz or 24Vdc battery. Needs item KMA3 for rack installation.

Size: 3 r.u..

150W POWER AMPLIFIER

UP150E

Code 1400-115010



NEW

TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu; 775mV
Input impedance	10KΩ
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rating power RMS	150W
Power I.H.F.	225W
Speaker outputs, constant imp.	4Ω, 8Ω
Speaker outputs, constant volt.	70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	275VA
Dimensions (WxHxD)	443x88x310mm
Colour	black
Weight	8,5Kg

150W monophonic power unit. Features: one balanced input and one link output on screw terminal, LED ON and protection indicators and one general volume control. Cooling by natural heat dissipation. Audio power outputs for constant impedance lines and constant voltage lines. 230VAC - 50÷60Hz mains power supply. Needs KMR2 for rack assembly. Dimensions: 2 UNITS

2x120W POWER AMPLIFIER

UP2120

Code 1400-212010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu; 775mV
Input impedance	10KΩ
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rated power RMS	2x120W
Power I.H.F.	2x180W
Speaker outputs, constant imp.	4Ω, 8Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power consumption	440VA
Dimensions (LxHxD)	443x88x291mm
Colour	black
Weight	11,4Kg



Multichannel power amplifier. Features 2x balance input and 2x Link output with XLR connectors, power on/off LEDs and general volume controls. Speaker outputs are provided for lines at constant impedance and for lines at constant voltage. Power supply from mains 230Vac – 50÷60Hz or 24Vdc battery.

Needs item KMA2 for rack installation.

Size: 2 r.u.

2x240W POWER AMPLIFIER

UP2240

Code 1400-224010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu; 775mV
Input impedance	10KΩ
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rated power RMS	2x240W
Power I.H.F.	2x360W
Speaker outputs, constant imp.	4Ω, 8Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power consumption	880VA
Dimensions (LxHxD)	443x88x340mm
Colour	black
Weight	18,5Kg

Multichannel power amplifier. Features 2x balanced input and 2x Link output with XLR connectors, power on/off LEDs and general volume controls. Cooling system by electronically controlled fan for forced ventilation. Speaker outputs are provided for lines at constant impedance and lines at constant voltage. Power supply from mains 230Vac – 50÷60Hz or 24Vdc battery. Needs item KMA2 for rack installation.

Size: 2 r.u..

2x500W POWER AMPLIFIER

UP2500

Code 1400-250010

**TECHNICAL SPECIFICATIONS**

Input sensitivity	+0dBu; 775mV
Input impedance	10K Ω
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rated power RMS	2x500W
Power I.H.F.	2x700W
Speaker outputs, constant imp.	-
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	-
Power consumption	1200VA
Dimensions (LxHxD)	436x132x432mm
Colour	black
Weight	26,0Kg

Multichannel power amplifier. Features 2x balanced input and 2x Link output with XLR connectors, power on/off LEDs and general volume controls. Cooling system by electronically controlled fan for forced ventilation. Speaker outputs are provided for lines with constant voltage. Power supply from mains 230Vac – 50÷60Hz.

Needs item KMA3 for rack installation.

Size: 3 r.u..

4x120W POWER AMPLIFIER

UP4120

Code 1400-412010

**TECHNICAL SPECIFICATIONS**

Input sensitivity	+0dBu; 775mV
Input impedance	10K Ω
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rated power RMS	4x120W
Power I.H.F.	4x180W
Speaker outputs, constant imp.	4 Ω , 8 Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power consumption	880VA
Dimensions (LxHxD)	436x132x372mm
Colour	black
Weight	20,0Kg

Multichannel power amplifier. Features 4x input and 4x link output with XLR connectors, power on/off LEDs and general volume controls. Speaker outputs are provided for lines at constant impedance and for lines at constant voltage. Power supply from mains 230Vac – 50÷60Hz or 24Vdc battery.

Needs item KMA3 for rack installation.

Size: 3 r.u..

150W POWER AMPLIFIER

DA150

Code 1400-315010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu; 775mV
Input impedance	10K Ω
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rated power RMS	150W
Power I.H.F.	225W
Speaker outputs, constant imp.	4 Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	160VA
Dimensions (LxHxD)	483x44x270mm
Colour	black
Weight	5,8Kg

Monophonic digital power amplifier. Features 1x balanced input with XLR connector and 1x Link input/output with contact connector, power on/off LED, signal presence LED, peak LED, overload LED and general volume control on the back. Speaker outputs are provided for lines at constant impedance and lines at constant voltage. Power from mains 230Vac – 50÷60Hz. Suitable to rack installation.
Size: 1 r.u..

240W POWER AMPLIFIER

DA240

Cod. 1400-324010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu; 775mV
Input impedance	10K Ω
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rated power RMS	240W
Power I.H.F.	360W
Speaker outputs, constant imp.	4 Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	300VA
Dimensions (LxHxD)	483x44x340mm
Colour	black
Weight	6,7Kg

Monophonic digital power amplifier. Features 1x balanced input with XLR connector and 1x input/output with contact connector, power on/off LED, signal presence LED, peak LED, overload LED and general volume control on the back. Speaker outputs are provided both for lines at constant impedance and lines at constant voltage. Powered from mains 230Vac – 50÷60Hz. Suitable to rack installation.
Size: 1 r.u..

2X150W POWER AMPLIFIER

DA2150

Code 1400-615010

**TECHNICAL SPECIFICATIONS**

Input sensitivity	+0dBu; 775mV
Input impedance	10KΩ
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rated power RMS	2x150W
Power I.H.F.	2x225W
Speaker outputs, constant imp.	4Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	320VA
Dimensions (LxHxD)	483x44x270mm
Colour	black
Weight	10,0Kg

Multichannel digital power amplifier. Features 2x balanced input with XLR connectors and 2x link input/output with contact connectors, power on/off LED, signal presence LED, peak LED, overload LED and general volume control on the back. Speaker outputs are provided both for lines at constant impedance and lines at constant voltage. Powered from mains 230Vac – 50÷60Hz. Designed for rack installation.

Size: 1 r.u.

2x240W POWER AMPLIFIER

DA2240

Code 1400-624010

**TECHNICAL SPECIFICATIONS**

Input sensitivity	+0dBu; 775mV
Input impedance	10KΩ
Frequency response (-3dB)	50 ÷ 15000Hz
Rated power distortion (1KHz)	<1%
Signal/noise ratio	>90dB
Rated power RMS	2x240W
Power I.H.F.	2x360W
Speaker outputs, constant imp.	4Ω
Speaker outputs, constant volt.	50V, 70V, 100V
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	600VA
Dimensions (LxHxD)	483x44x340mm
Colour	black
Weight	11,5Kg

Multichannel digital power amplifier. Features 2x balanced input with XLR connectors and 2x Link input/output with contact connectors, power on/off LED, signal presence LED, peak LED, overload LED and general volume controls on the back. Speaker outputs are provided both for lines at constant impedance and lines at constant voltage. Powered from mains 230Vac – 50÷60Hz. Suitable to rack installation.

Size: 1 r.u.

DIGITAL AM/FM TUNER

SR

Code 1500-111010



TECHNICAL SPECIFICATIONS

Tuner range	87,5 ÷ 108MHz
Sensibility	6dBu
Frequency	50KHz
Output level	400mV
Frequency response	50 ÷ 15000Hz
Distortion	<1%
Signal/noise ratio	>65dB
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	9VA
Dimensions (WxHxD)	435x85x293mm
Colour	black
Weight	3,2Kg

RDS stereo tuner with automatic or manual search and memory functions. It can store up to 30 AM stations and up to 30 FM stations. Display function of radio station names, programme type, time and RF signal level. Housed in coated metal box with ABS front, with function and control buttons on front panel, multi-function fluorescent display and IR remote control. AM/FM antenna and stereo audio output with RCA connectors on the back.

Needs item KSR for rack installation.

Size: 2 r.u.

MULTI CD PLAYER WITH 5-CD STORAGE UNIT

MCD

Code 1500-121010



TECHNICAL SPECIFICATIONS

Search time	~5"
TOC read time	~5"
File read	MP3
Output sensitivity	2,1V
Frequency response	20 ÷ 20000Hz
Distortion	<0,1%
Signal/noise ratio	>100dB
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	12VA
Dimensions (WxHxD)	435x115x390mm
Colour	black
Weight	6,2Kg

CD, CD-R, CD-RW and CD MP3 player with rotary- tray disk change with 5 positions, sequential playing, Repeat/Shuffle/Program function, intro check. Since an MP3-CD can store the contents of 10 CDs, you can listen to 50 different CD in a sequence without inserting or removing a CD.

Housed in painted metal box with ABS front, with front function and control buttons, multi-function fluorescent display, headset output and IR remote control. Analogue audio stereo output and coaxial output with RCA connectors on the back. Needs item KMCD for rack installation.

Size: 3 r.u..

MULTIMEDIA PLAYER

SRCD

Code 1500-131010



TECHNICAL SPECIFICATIONS

TUNER

Frequency range FM	87,5 ÷ 108MHz
Sensitivity	6uVemf
Frequency step	50KHz
Output level	-5dBu; 400mV
Frequency response	50 ÷ 20000Hz
Nominal harmonic distortion 1KHz	<1%
Signal to noise ratio	>55dB

CD/USB/SD/MMC

Search time	~6"
TOC reading time	~6"
Type file	MP3
Output level	+4dBu; 1,2V
Frequency response	20 ÷ 20000Hz
Nominal harmonic distortion 1KHz	<0,2%
Signal to noise ratio	>80dB

AC operating voltage	230Vac - 50÷60Hz
Current consumption:	10VA
Dimensions (WxAxD)	483x44x250mm
Colour	black
Weight	3,7Kg

Professional sound source with two independent sections:

- FM digital tuner, stores up to 60 stations, manual or automatic tuning, back-lit display, front control buttons, stereo output via RCA connectors.
- CD/MP3/USB/SD/MMC player, mechanical anti-shock system, back-lit display, front control buttons, stereo output via RCA connectors.

The unit also features an additional stereo output via RCA connectors which mixes two sections with priority for CD mode, switches automatically to Tuner mode when disc ends. Features IR remote control for Tuner and CD modes.

Can be rack mounted. Dimensions: 1 UNIT

VHS - DVD PLAYER

VHS/DVD

Code 1500-201010

Combined player capable of recording VHS and playing DVD video. Features DVB-T tuner for unencrypted reception of digital TV signals.

PA2 needed for rack mounting. Dimensions: 2 UNITS

VIDEO DVD PLAYER

DVD

Code 1500-211010

DVD player.

Needs item PA1 for rack installation. Size: 1 r.u.

VIDEO DVD RECORDER/PLAYER

DVD/R

Code 1500-221010

DVD Video player/recorder. Features DVB-T tuner for unencrypted reception of digital TV signals.

PA2 needed for rack mounting. Dimensions: 2 UNITS

VIDEO DVD RECORDER/PLAYER WITH HARD-DISK

DVD/R HDD

Code 1500-231010

DVD Video player/recorder. Also records on internal hard disk (minimum 160GB) Features DVB-T tuner for unencrypted reception of digital TV signals.

PA2 needed for rack mounting. Dimensions: 2 UNITS

FEEDBACK SUPPRESSOR

PAL

Code 1600-111010



TECHNICAL SPECIFICATIONS

Input sensitivity	+0dBu
Input impedance	47KΩ
Output level	-12 ÷ +0dBu
Frequency shift	2 ÷ 20Hz
Larsen effect gain	10dB
Frequency response	85 ÷ 15000Hz
Signal/noise ratio	>72dB
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	15VA
Dimensions (WxHxD)	436x44x154mm
Colour	black
Weight	1,0Kg

Processor used to reduce noise in sound systems when the speaker sound is fed back to the amplification system through a microphone (Larsen effect). Especially suitable for churches, conference rooms and auditoriums. The operating principle is based on frequency shift between the incoming and outgoing signal, to avoid triggering the Larsen effect. Connection is made from the Send output to the Return input of a mixer/amplifier or from the Pre output of a mixer to the input of the power unit. Housed in coated metal box and provided with controls for: frequency shift adjustment within the 2- 20 Hz range; up/down shift selection; output level adjustment; activation/deactivation of the suppression effect. Needs item KMA1 for rack installation.
Size: 1 r.u..

TELEPHONE INTERFACE

IPV

Code 1600-121010



TECHNICAL SPECIFICATIONS

Input sensitivity	-50 ÷ -2dBu; 2,5 ÷ 500mv
Input impedance	10KΩ
Release time	1" ÷ 7"
Power supply	24Vdc
Dimensions (WxHxD)	154x42x81mm
Colour	black
Weight	0,6Kg

Unit for automatic activation of priority contact of mixers/amplifiers, to be used to interface telephone exchange boards (PABX) provided with dedicated audio output. A micro/line level audio signal must be applied to the input to trigger the output. Housed in a coated metal box and provided with unbalanced audio input with XLR 3-pole connector, input level adjustment, release time adjustment, status LED and audio output with DIN 5-pin connector for connection to mixers/amplifiers models PRE6, A120, A240 and A150E. Gets power from the connected mixer/amplifier. Supplied with a 1-meter long connection cable with 5-pole DIN connectors at both ends. Black Colour.

PRE-RECORDED MESSAGE PLAYER

GSV

Code 1600-131010



TECHNICAL SPECIFICATIONS

IN MIC input sensitivity	-50 ÷ -2dBu; 2,5 ÷ 500mV
MIC input impedance	10KΩ
IN AUX input sensitivity	-4 ÷ +0dBu; 300 ÷ 775mV
AUX input impedance	47KΩ
Output sensitivity	-4 ÷ +2,5dBu
Power from AC mains	230Vac - 50÷60Hz
Power from battery	24Vdc
Power consumption	10VA
Dimensions (LxHxP)	483x44x151mm
Colour	black
Weight	2,0Kg

Digital pre-recorded message player for broadcast of voice messages, alarm messages or advertising messages. Message playing can be started manually by the operator or automatically from a fire alarm control unit (or similar) connected to dedicated inputs for remote contacts. Two configuration modes are available:

- Voice – to record and play up to 9 messages with variable length for a total time of 120 seconds;
- Effects – to record and play 1 message of 120 seconds total and play 8 pre-recorded unmodifiable acoustic signals.

Messages can be recorded with dynamic microphone (not supplied) or external sound source connected to aux input.

Housed in coated metal box and provided with front buttons for message selection and activation, key-switch with safety lock to start recording, adjustment of recording level, inputs for remote contacts, input for BMCP/A microphone unit, RS232 connection and monitor speaker. Suitable to rack installation.

Size: 1 r.u..

HAND-HELD MICROPHONE**MI50**

Code 1800-111010

Monodirectional cardioid handheld dynamic microphone, balanced at low impedance, especially suitable for high-quality voice playback. Die-cast metal body, painted metal grille and on/off switch. Supplied with connection cable with XLR/Jack connectors, Jack/XLR adapter and removable support for microphone stand.

TECHNICAL SPECIFICATIONS

Microphone	dynamic
Frequency response	80 ÷ 12000Hz
Pick-up pattern	cardioid
Sensitivity	-74dB
Impedance	600Ω
Cable length (supplied)	5m
Dimensions	ø54mm x 165mm
Colour	black

HAND-HELD MICROPHONE**MI500**

Code 1800-112010

Professional unidirectional cardioid handheld dynamic microphone, balanced at low impedance, especially suitable for high-quality voice playback. Die-cast metal body, anodized metal grille and on/off activation switch. Provided with connection cable with XLR/Jack connectors, Jack/XLR adapter and removable support for microphone stand.

TECHNICAL SPECIFICATIONS

Microphone	dynamic
Frequency response	50 ÷ 16000Hz
Pick-up pattern	cardioid
Sensitivity	-49dB
Impedance	400Ω
Cable length (supplied)	5m
Dimensions	ø50mm x 195mm
Colour	black

HANDHELD MICROPHONE**MI550**

Code 1800-113010

Electronically balanced professional unidirectional electret cardioid microphone especially suitable for high-quality voice playback. Die-cast metal body, painted metal grille. Remotely powered by 9-52V phantom voltage source. Supplied with connection cable with XLR connectors at both ends and removable support for microphone stand.

TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	50 ÷ 18000Hz
Pick-up pattern	cardioid
Sensitivity	-45dB
Impedance	250Ω
Phantom power supply	9 ÷ 52V
Cable length (supplied)	5m
Dimensions	ø50mm x 185mm
Colour	black

DESKTOP MICROPHONE**MT1000**

Code 1800-141010

Electronically balanced electret semi-cardioid boundary microphone especially suitable for high-quality voice playback in applications that require high sensitivity and directionality (churches, etc.). It requires standard phantom power supply with range from 9 to 52Vdc. Die-cast metal body, painted metal grille and anti-slip rubber bottom, suitable for all flat surfaces. Provided with connection cable with XLR connectors.

TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	30 ÷ 20000Hz
Pick-Up pattern	semi-cardioid
Sensitivity	-53dB
Impedance	250Ω
Phantom power supply	9 ÷ 52V
Cable length (supplied)	5m
Dimensions	ø118mm x 23mm
Colour	black

GOOSENECK MICROPHONE

MG

Code 1800-161010



Professional unidirectional cardioid electret microphone, electronically balanced, optimised for voice pick-up since it produces a frequency response with an essentially constant output voltage over the voice spectrum.

Remotely powered by standard 9-52V phantom voltage source .

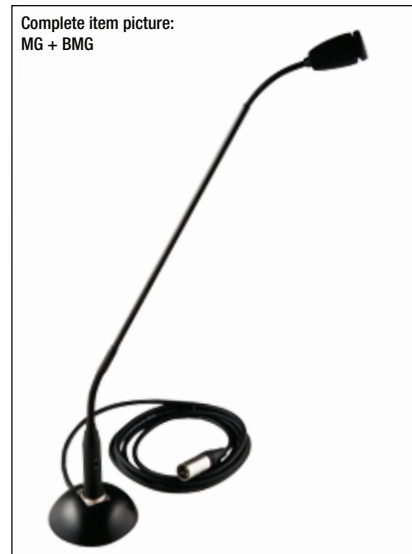
Semi-rigid gooseneck with XLR connector for fast coupling on specific RP GM5/B or RP 803 units.

Package includes an additional XLR socket for recessed wall or desktop installation.

TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	50 ÷ 18000Hz
Pick-up Pattern	cardioide
Sensitivity	-46dB
Impedance	250Ω
Phantom power supply	9 ÷ 52V
Stem diameter	9mm
Length	570mm
Colour	black

Complete item picture:
MG + BMG



Code 1800-041010

DESKTOP BASE FOR GOOSENECK MICROPHONE

BMG



TECHNICAL SPECIFICATIONS

Dimensions	ø95mm x 35mm
Cable length	3m
Colour	black
Weight	0,9Kg

Round heavy base for removable gooseneck microphones. Die-cast painted metal body and anti-slip rubber bottom. XLR socket input. 3m-long output cable with 3-pole XLR connector.

DESK MICROPHONE STAND**AT**

Code 1800-011010



Telescoping desk stand for hand-held microphones. Cast iron body with anti-slip rubber feet. Black coated steel staff provided with 3/8" adaptor and two cable clamps. Adjustable height: 34÷61 cm. Black Colour.

BOOM MICROPHONE STAND**APG**

Code 1800-021010



Telescoping boom stand for handheld microphones, with adjustable boom arm. Black coated steel staff provided with 3/8" adaptor and two cable clamps. Tripod base with anti-slip rubber. Adjustable height: 98÷160 cm. Black Colour.

FLOOR MICROPHONE STAND**APD**

Code 1800-031010



Straight stand with 90÷160 cm telescopic staff, for handheld microphones and gooseneck microphones. Blackcoated steel staff provided with 3/8" adaptor and two cable clamps. Complete with XLR socket on top and 4.5m connection cable with XLR connector. Cast iron 25-cm diameter round base with anti-slip rubber feet. Black Colour.

REMOVABLE MICROPHONE SUPPORT**PMS**

Code 1800-001010



Support for desktop or floor stands suitable for handheld microphones. Semi-rigid rubber body, internal brass element with 3/8" thread. Black Colour.

CLAMP MICROPHONE SUPPORT**PMP**

Code 1800-002010



Support for desktop or floor stands suitable for handheld microphones. Anti-shock ABS body, internal brass element with thread 3/8". Black Colour.

RECEIVER



The receiver is based on the "Diversity" technology to eliminate drop-out effects. It is provided with two telescopic antennas, two LEDs to indicate the channel used, On/Off LED, "Squelch" adjustment. Unbalanced audio output with 6.3mm jack with selection switch for adjusting the output level. Power by 12Vac wall adapter (supplied). Black coated metal cabinet with anti-slip rubber feet, suitable for all flat surfaces. Needs item KMRX1 (for one receiver) or item KMRX2 (for two receivers) for rack installation. Size: 1 rack unit

RX

Code 1800-201010

TECHNICAL SPECIFICATIONS

Frequency band	VHF 160 ÷ 245MHz
Modulation	FM
Sensibility	3uV
Frequency stability	±0,005%
Deviation frequency rated	±40KHz
T.H.D.	<1%
Dynamic expensor	>100dB
Signal/noise ratio	>90dB
Frequency response	50 ÷ 15000Hz
Squelch	noise control
Output level	-6dBv
Output impedance	10KΩ unbalanced
Audio output	female jack TS 6,3mm
Power supply	12 ÷ 18Vdc
Current consumption	500mA
Dimensions (WxHxD)	210x46,5x230mm
Colour	black
Weight	2,7kg

HANDHELD TRANSMITTER



The handheld transmitter is provided with a dynamic cardioid microphone capsule, anti-shock ABS body, painted metal grille with On/Off switch and status LED. Battery powered (1.5V AA battery - not supplied). Black colour.

TXI

Code 1800-202010

TECHNICAL SPECIFICATIONS

Microphone	dynamic
Frequency band	VHF 160 ÷ 245MHz
Modulation	FM
Frequency stability	±0,005%
Deviation frequency rated	±40KHz
Tone frequency	32768Hz
Irradiated power	15mW
Frequency response	50 ÷ 15000Hz
Dynamic	>100dB
Battery	1 x LR6 (AA) 1,5V
Battery life	>12 hours
Dimensions	ø42mm x 235mm
Colour	black
Weight	0,2kg

BODY PACK TRANSMITTER



The body pack transmitter is made of anti-shock ABS with belt clip, 3.5mm jack connector for external microphone, On/Off switch, status LED, audio level and microphone sensitivity controls. Complete with Lavalier electret microphone with 3.5mm jack, 80cm cable and tie clip. Battery powered (9V battery - not supplied). Black colour.

TXB

Code 1800-203010

TECHNICAL SPECIFICATIONS

Microphone input	female jack TS 3,5mm
Frequency band	VHF 160 ÷ 245MHz
Modulation	FM
Frequency stability	±0,005%
Deviation frequency rated	±40KHz
Tone frequency	32768Hz
Irradiated power	10mW
Frequency response	50 ÷ 15000Hz
Dynamic	>100dB
Battery	1 x 9V
Battery life	>7 hours
Dimensions (WxHxD)	66x106x23mm
Colour	black
Weight	0,08kg

LAVALIER MICROPHONE



Lavalier unidirectional electret microphone, unbalanced. Clip for easy hanging on ties and antipop filter included.

ML

Code 1800-204010

TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	60 ÷ 16000Hz
Pick-Up-Pattern	cardioid
Sensibility	-40dB
Impedance	250Ω
Cable lenght	0,8m
Connection	male jack TS 3,5mm
Colour	black

HEADSET MICROPHONE



Unbalanced unidirectional electret microphone headset applied to flexible mount, with the option of being used alongside the body-pack transmitter: Particularly suitable for use when the speaker is in continuous movement (during sports activities etc.) and/or as suitable insulation from ambient noise. Anti-pop filter included.

MHS

Code 1800-205010

TECHNICAL SPECIFICATIONS

Microphone	electret
Frequency response	60 ÷ 16000Hz
Pick-Up-Pattern	cardioid
Sensibility	-40dB
Impedance	250Ω
Cable lenght	0,8m
Connection	male jack TS 3,5mm
Colour	black

Wireless microphone kit including one handheld wireless microphone and one "Diversity" receiver, with fixed frequency (available frequencies: 181.900MHz, 182.400MHz, 202.400MHz, 203.800MHz, 204.820MHz).

HAND-HELD WIRELESS MICROPHONE KIT

RTI

Code 1800-211010



For rack installation the receiver needs item KMRX1 (for one receiver) or item KMRX2 (for two receivers). Size: 1 rack unit

BODY PACK WIRELESS MICROPHONE KIT

RTL

Code 1800-221010



Wireless microphone kit including one body pack transmitter with Lavalier microphone and one "Diversity" desktop receiver with fixed frequency (available frequencies: 181.900MHz, 182.400MHz, 202.400MHz, 203.800MHz, 204.820MHz). For rack installation the receiver needs item KMRX1 (for one receiver), or item KMRX2 (for two receivers). Size: 1 rack unit

DESKTOP MICROPHONE UNIT

BMCS

Code 1800-321010



Microphone unit with gooseneck dynamic unidirectional low impedance unbalanced microphone, for voice announcements.
 Provided with both a dual-toggle switch and a pushbutton for TALK function.
 Specific for use with mixers/amplifiers models with jack connectors.
 Aluminium body with ABS sides.
 Provided with 5m-long connection cable with 6.3 mm jack connector.

TECHNICAL SPECIFICATIONS

Microphone	gooseneck - dynamic
Frequency response	50 ÷ 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	410mm
Power supply	no
Contatto di priorità	no
Cable length (supplied)	5m
Connection	mono 6,3mm male jack TS
Material	aluminium + ABS
Dimensions	106x60x130mm
Colour	grey/black

DESKTOP MICROPHONE UNIT

BMCP

Code 1800-311010



Microphone unit with gooseneck dynamic unidirectional low impedance microphone with balanced output, for voice announcements. Provided with both a dual-toggle switch and a pushbutton for TALK talk function. Specially designed for use with mixer/amplifiers models PRE6, A120, A240 and A120E, provides a priority contact for attenuating other sound sources and generating a chime tone. Remotely powered by same mixer/amplifiers. When used with other models of mixer/amplifier requires an external 24Vdc voltage supply.
 Aluminium body, ABS sides with feet.
 Complete with 5m-long connection cable and 5-pin DIN connector.

TECHNICAL SPECIFICATIONS

Microphone	gooseneck - dynamic
Frequency response	50 ÷ 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	410mm
Power supply	24Vdc
Contatto di priorità	si
Cable length (supplied)	5m
Connection	5-pole DIN male
Material	aluminium + ABS
Dimensions	106x60x130mm
Colour	grey/black

INTERFACE BOX

IC4

Code 1800-304010



TECHNICAL SPECIFICATIONS

Input	4 - din 5 female din socket
Output	1 - din 5 female din socket
Power supply	12Vdc
Dimensions (WxHxD)	140x42x40mm
Colour	black
Weight	0,8Kg

Interface for connecting up to 4x BMCP microphone units to priority inputs of mixers/amplifiers models PRE6, A120, A240 and A120E. Priority calls and announcements are possible from any of the connected microphone units. When any unit is activated, the other microphones are temporarily disabled. When more than 4 microphone units are needed it is possible to connect more interface boxes in sequence, the ones following the first box with 3 microphones each. Housed in a plastic cabinet and provided with 4 microphone inputs and one DIN 5-pin output. Powered by a 12Vdc wall adaptor (supplied). Supplied with 1m-long connection cable with DIN 5-pole connectors at both ends.

INTERFACE BOX

IC8

Code 1800-308010



TECHNICAL SPECIFICATIONS

Input	8 - din 5 female din socket
Output	1 - din 5 female din socket
Input sensibility	-50 ÷ -2dBu; 2,5 ÷ 500mV
Input impedance	10KΩ
Output level	-4dBu; 300mV
Power supply from AC mains	230Vac - 50÷60Hz
Power consumption	10VA
Dimensions (WxHxD)	483x44x151mm
Colour	black
Weight	1,9Kg

Interface for connecting up to 8x BMCP microphone units to priority inputs of mixers/amplifiers models PRE6, A120, A240 and A120E. Priority calls and announcements are possible from any of the connected microphone units. When any unit is activated, the other microphones are temporarily disabled. When more than 8 microphone units are needed it is possible to connect more interface boxes in sequence, the ones following the first box with 7 microphones units each.

Housed in a black -coated steel cabinet and provided with 8 microphone inputs with adjustable gain and LED light (lit when the input is active), one DIN 5-pin audio output and a NO/NC auxiliary relay contact.

Thanks to the gain controls, different sources can be connected to the inputs, other than the microphone unit model BMCP (e.g. model GSV or IPV).

Supplied with 1m-long connection cable with DIN 5-pole connectors at both ends.

Suitable to rack installation.

Size: 1 rack unit

MUSIC/VOICE SELECTOR UNIT

SL10

Code 1600-141010



TECHNICAL SPECIFICATIONS

Input	2+2
Output	5+5
Max power applicable	500W
BM10 maximum number	5
Zones activation	by contact
Gen-Call activation	by contact / by 24Vdc voltage
Auxiliary relay	1 - c/na/nc (max 5A)
Power supply from AC mains	230Vac - 50÷60Hz
Power supply from battery	24Vdc
Power Consumption	22VA
Dimensions (WxHxD)	483x88x225mm
Colour	black
Weight	3,2Kg

Selector unit for voice announcements and background music for installations of max. 10 speaker zones, to be used in combination with the BM10 microphone unit. The selector unit provides switches to select the zones where to broadcast music. When used with the BM10 microphone unit, it is possible to make selective announcements in any of the 10 zones, without affecting the others. The following system configurations are possible:

- system with one mixer/preamp for microphone(s), one mixer/preamp for sound sources and one amplifier for each zone; in this way it is possible to adjust the sound level in each of the 10 zones independently;
- system with one mixer/amplifier for microphone(s) and one mixer/amplifier for sound sources; in this way, the audio level adjustment is common to all zones.

Also, the 10 zones can be split in two groups of 5 zones each. Each group has separate outputs for voice and music.

Housed in black coated steel box and provided with 10 front switches for on-off music broadcast in each zone, and status LED. Removable contact connectors are provided at the back panel for connecting sound sources, microphones and speaker lines, and for remote control of auxiliary functions. The SL10 provides power for up to 5 microphone units (24Vdc). Suitable to rack installation.

Size: 2 rack units.

DESKTOP MICROPHONE UNIT

BM10

Code 1800-331010



Microphone unit with gooseneck cardioid electret microphone, with LED light ring, suitable for voice announcements in combination with the RP SL10 selector unit. Provided with 10 buttons for zone selection, one General Call button and one pushbutton for TALK function, all with LED lights.

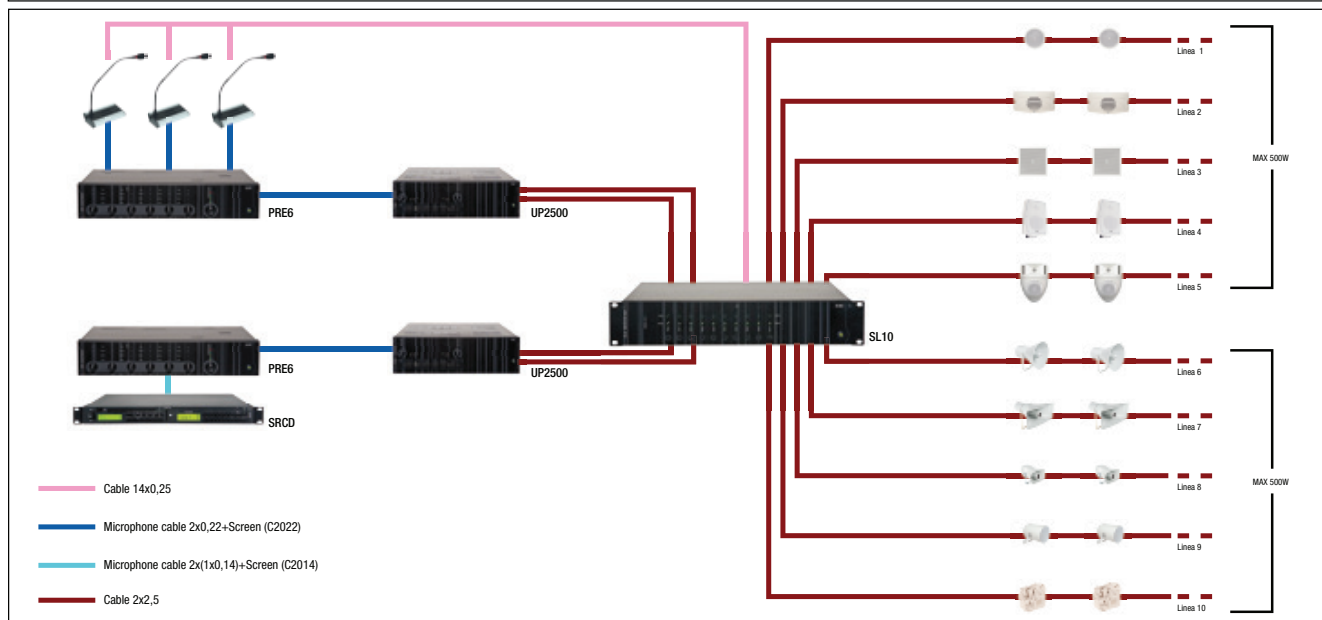
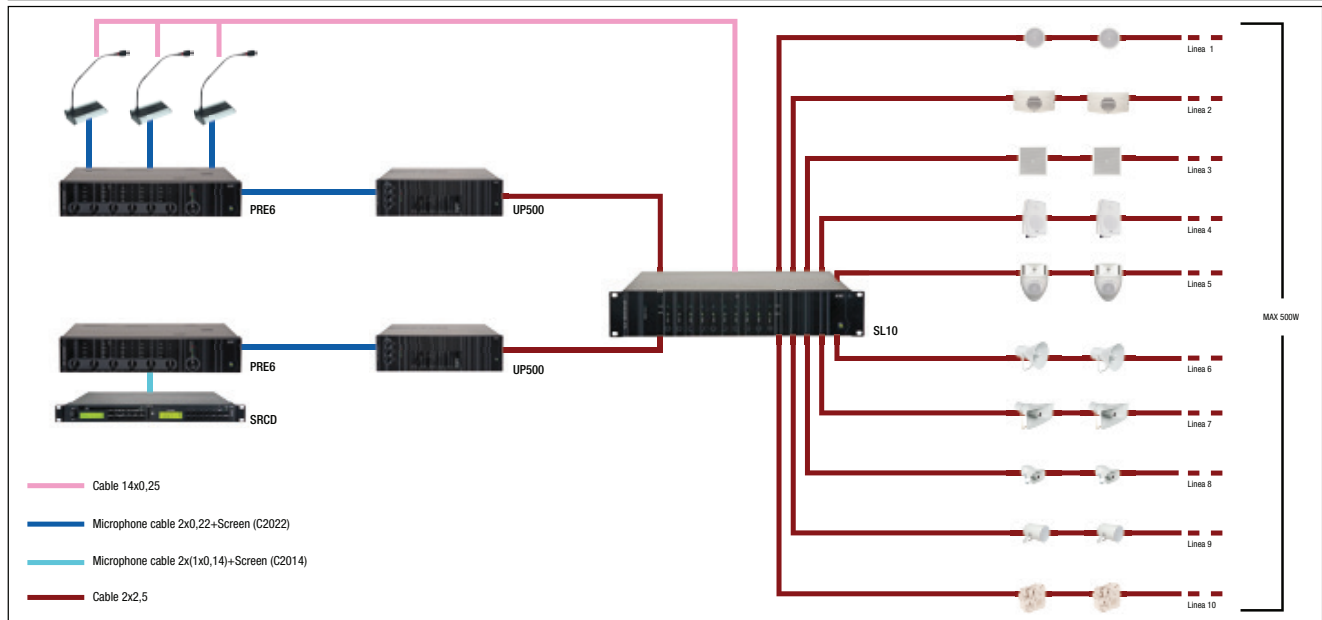
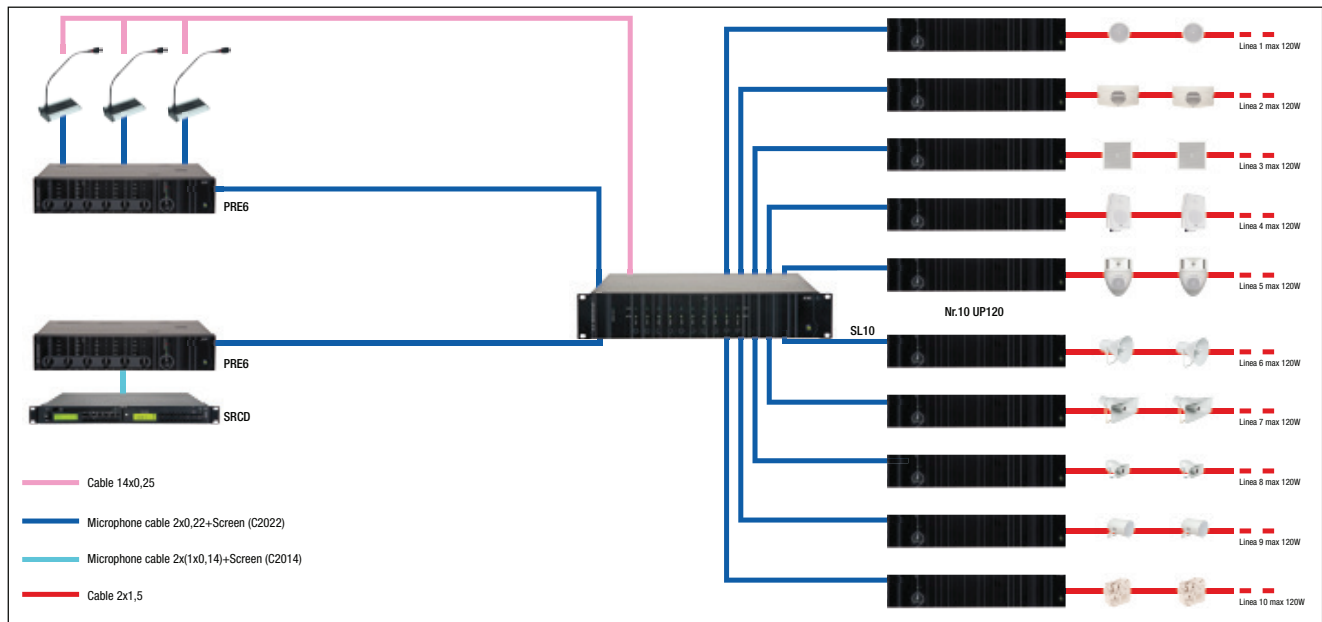
Aluminium body, ABS sides with feet.

Complete with 5m-long connection cable with XLR connector for connection to a mixer/amplifier and 5m-long multiwire cable for connection to the selector model SL10. Powered through the selector unit model SL10.

TECHNICAL SPECIFICATIONS

Microphone	gooseneck - electret
Frequency response	50 ÷ 16000Hz
Pick-up pattern	cardioid
Sensitivity	-45dB
Impedance	1000Ω
Microphone length	490mm
Power supply	24Vdc
Priority contact	yes
Zones selection	10
Cable length (supplied)	2x5m
Connection	male xlr / screw
Material	aluminium + ABS
Dimensions	206x60x130mm
Colour	grey/black

Example of installation



2-WAY INTERCOM KIT

SI2C

Code 1800-361010

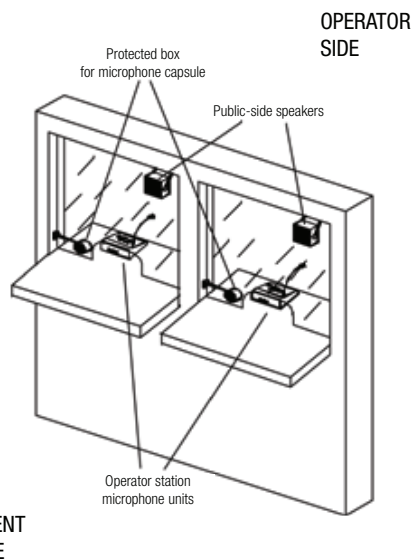


TECHNICAL SPECIFICATIONS

Operator microphone	electret monodirectional
User microphone	condenser microphone capsule
Operator speaker	3W/8Ω
User speaker	10W/4Ω
Microphone lenght	490mm
Power supply	500mA 230Vac/15Vdc
Microphone cable lenght	3,5m
Speaker cable lenght	3m
Material	aluminium + ABS
PMO dimensions (WxHxD)	206x55x130mm
DPC dimensions (WxHxD)	120x110x85mm
Colour	RAL 7035 / grey



The intercom kit is designed to make conversation easier between operators and clients in case of safety glasses that impair sound transmission. Specific functions are available to set the system in automatic mode to allow the operator to work without using buttons or other controls. Alternatively, the system can be set to manual mode to mute the operator microphone for the public and activate it only by pushing the button, when necessary. Moreover, the system can be set to stand-by mode to mute both the operator and client microphones when the counter is closed. The system includes a control unit and microphone station to be installed at the operator side, a microphone capsule and a passive speaker to be installed at the client side.



Control Unit

It contains the circuits to manage incoming and outgoing signals. It is provided with one gooseneck, electret cardioid microphone with light ring, three functional buttons with status indicating LEDs, a built-in speaker and two trimmers for independent adjustment of volume of both stations. 15Vdc power supply with power supply unit supplied. An additional passive speaker type DPC can be connected in combination with the built-in speaker. Aluminium extruded body, ABS sides with feet. Grey/black colour.

Client Station

- ABS black speaker with 4 Ohm passive speaker, complete with C-shaped fixing bracket and 2x0.75mm² connection cable (3m) with RCA connector.
- Miniaturised electret cardioid microphone capsule on ABS black support with high-resistance bi-adhesive for fixing on glass, complete with 3.5m connection cable with 3.5mm jack.

VEHICLE MOBILE AUDIO KIT

KAM

Code 1700-111010



Composed of a 25W power amplifier with one unbalanced microphone input, one AUX input, one output for speakers with 4/8 Ohm constant impedance, separate volume controls for each channel and master volume control. Power supply is provided with 230Vac mains voltage or 12Vdc voltage from cigar lighter by means of an adapter cable supplied. Combined with two outdoor passive horn speakers type DT3417/P and one dynamic handheld microphone type MI50.

TECHNICAL SPECIFICATIONS

Output power 4Ω	30W r.m.s.
Output power 8Ω	30W r.m.s.
Output power 16Ω	30W r.m.s.
Frequency response	100Hz 18Hz 3dB
Harmonic distortion T.H.D.	<0,1%
Signal/noise ratio	-55dB
MICRO input sensitivity	-55dB 2dB
AUX input sensitivity	-20dB 2dB
Power supply	230Vac - 50÷60Hz
Weight	5,0Kg

6W CEILING MOUNT SPEAKER

DC18/T6SE Code 1900-418061

10W CEILING MOUNT SPEAKER

DC23/T10SE Code 1900-423101

20W CEILING MOUNT SPEAKER

DC28/T20SE Code 1900-428201

NEW



6W, 10W ceiling speaker, suitable for quality reproduction of announcements and background music. Painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 110°C. Particularly suitable for emergency announcements.

Ceiling mount speaker for excellent playback quality of voice announcements and background in applications that require high-fidelity sound. Body and grille made of painted metal, provided with spring clips for easy installation, and fire dome. Complete with line transformer with selectable power for better adjustment of sound level. Provided with ceramic terminal and thermal fuse for exclusion from line in case of temperatures higher than 110°C.

Specific for emergency message broadcasting.

Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3W
Transformer impedance	1,67/3,33KΩ
Frequency response	90 ÷ 18000Hz
S.P.L. 1W@1m	90 ±3dB
Speaker type	5" full range
Speaker impedance	8Ω
Dimensions	ø180mm x 127mm
Hole dimensions	ø160mm
Material	steel
Colour	white
Weight	1,3Kg

Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5W
Transformer impedance	1/2KΩ
Frequency response	90 ÷ 18000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	6,5" full range
Speaker impedance	8Ω
Dimensions	ø230mm x 127mm
Hole dimensions	ø200mm
Material	steel
Colour	white
Weight	1,4Kg

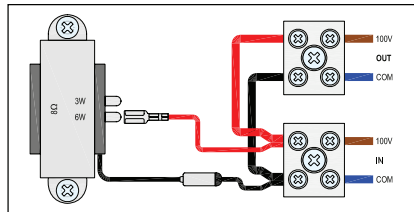
Perspective View



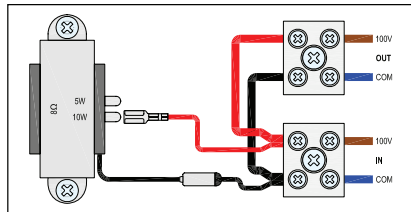
TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Input voltage	100V
Power RMS	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	100 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker impedance	woofer 8" + tweeter 1"
Speaker impedance	8Ω
Dimensions	ø280mm x 115mm
Hole dimensions	ø245mm
Material	steel
Colour	white
Weight	2,8Kg

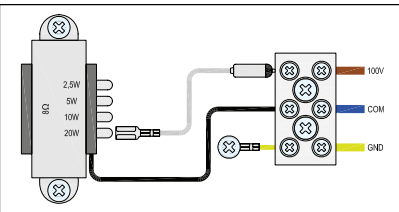
Connection



Connection



Connection



6W CEILING MOUNT SPEAKER

DC20/T6SE Code 1900-420061

15W CEILING MOUNT SPEAKER

DC27/T15SE Code 1900-427151

40W CEILING MOUNT SPEAKER

DCR27H/T40 Code 1900-270401

NEW



6W, 15W ceiling speaker, suitable for quality reproduction of announcements and background music. Painted metal body and grille, with spring clips for quick and easy ceiling mounting on flame-resistant caps. Complete with line transformer with selectable power for better sound level regulation. Equipped with flameproof base, dual ceramic terminal block for 100V signal input and output and thermal fuse for exclusion from mains line in the event of temperatures above 110°C. Particularly suitable for emergency announcements.

Ceiling mount speaker for excellent playback quality of voice announcements and background in applications that require high-fidelity sound. Self-extinguishing ABS body with fire cover and painted metal grille, provided with rotary hooks for easy and quick mount in false ceilings. Complete with line transformer with selectable power for better adjustment of sound level. Specific for emergency message broadcasting.

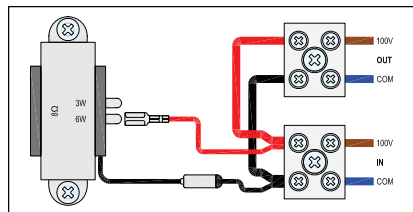
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3W
Transformer impedance	1,67/3,33KΩ
Frequency response	100 ÷ 18000Hz
S.P.L. 1W@1m	92 ±3dB
Speaker type	6" full range
Speaker impedance	8Ω
Dimensions	ø200mm x 100mm
Hole dimensions	ø180mm
Material	steel
Colour	white
Weight	2,2Kg

Connection



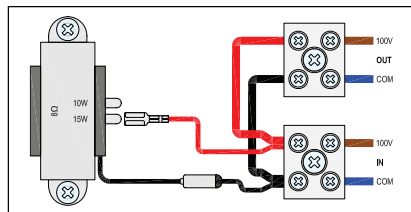
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	10W
Intermediate power	15/10W
Transformer impedance	0,666/1KΩ
Frequency response	150 ÷ 18000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	8" full range
Speaker impedance	8Ω
Dimensions	ø268mm x 110mm
Hole dimensions	ø230mm
Material	steel
Colour	white
Weight	1,4Kg

Connection



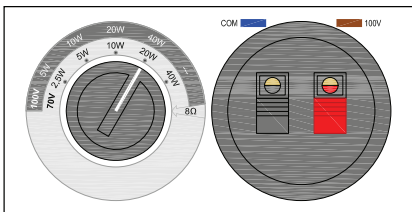
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	40W
Intermediate power	40/20/10/5W
Transformer impedance	0,25/0,5/1/2KΩ
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	87 ±3dB
Speaker type	woofer 8" + tweeter 1"
Speaker impedance	8Ω
Dimensions	ø272mm x 190mm
Hole dimensions	ø240mm
Material	ABS/steel
Colour	white
Weight	2,3Kg

Connection



6W CEILING MOUNT SPEAKER

DC20/T6

Code 1900-120061



Ceiling mount speaker for excellent playback quality of voice announcements and background music. Body and grille made of painted metal, provided with spring clips for easy installation in false ceiling. Complete with line transformer with selectable power for better adjustment of sound level.

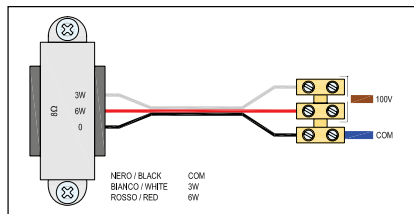
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,67/3,33/6,66KΩ
Frequency response	110 ÷ 15000Hz
S.P.L. 1W@1m	90 ±3dB
Speaker type	5" full range
Speaker impedance	8Ω
Dimensions	ø200mm x 50mm
Hole dimensions	ø170mm
Material	steel
Colour	white
Weight	0,7Kg

Connection



10W CEILING MOUNT SPEAKER

DC23/T10

Code 1900-123101



Ceiling mount speaker for excellent playback quality of voice announcements and background music. Body and grille made of painted metal, provided with spring clips and bridge bracket for simple quick mount in false ceiling. Complete with line transformer with selectable power for better adjustment of sound level. White colour.

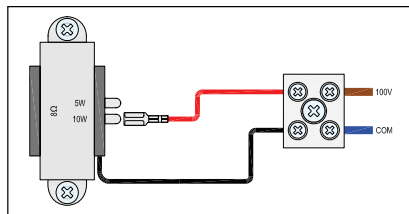
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	90 ÷ 18000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	6" full range
Speaker impedance	8Ω
Dimensions	ø230mm x 106mm
Hole dimensions	ø200mm
Material	steel
Colour	white
Weight	1,2Kg

Connection



15W CEILING MOUNT SPEAKER

DC27/T15

Code 1900-127151



Ceiling mount high-efficiency speaker for excellent sound quality of voice announcements and background music in applications that require high-fidelity sound. Body and grille made of painted metal, provided with spring clips for easy installation in false ceiling. Complete with line transformer with selectable power for better adjustment of sound level. White colour.

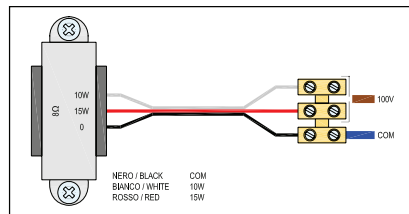
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	15W
Intermediate power	15/10W
Transformer impedance	0,666/1KΩ
Frequency response	90 ÷ 18000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	8" full range
Speaker impedance	8Ω
Dimensions	ø266mm x 65mm
Hole dimensions	ø230mm
Material	steel
Colour	white
Weight	1,2Kg

Connection



40W CEILING MOUNT SPEAKER

DCR27/T40 Code 1900-227401

40W CEILING MOUNT SPEAKER

DCQ25/T40 Code 1900-254401

6W CEILING MOUNT SPEAKER

DC10/T6 Code 1900-210061



NEW



Ceiling mount speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. Self-extinguishing ABS body with painted metal grille, provided with rotary hooks for easy and quick installation in false ceilings.

Complete with line transformer with selectable power for better adjustment of sound level.

Ceiling mount speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. ABS body and metal painted grille, provided with rotary hooks for easy and quick installation in false ceilings. Complete with line transformer with selectable power for better adjustment of sound level.

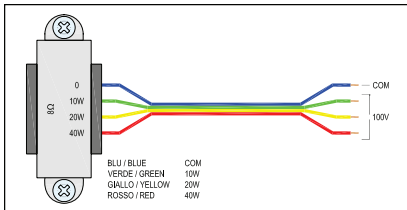
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	40W
Intermediate power	40/20/10W
Transformer impedance	0,25/0,5/1KΩ
Frequency response	50 ÷ 20000Hz
S.P.L. 1W@1m	95 ±3dB
Speaker type	woofer 8" + tweeter 1"
Speaker impedance	8Ω
Dimensions	270mm x 92mm
Hole dimensions	ø240mm
Material	ABS/steel
Colour	white
Weight	1,8Kg

Connection



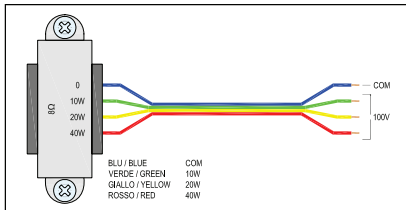
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	40W
Intermediate power	40/20/10W
Transformer impedance	0,25/0,5/1KΩ
Frequency response	50 ÷ 18000Hz
S.P.L. 1W@1m	95 ±3dB
Speaker type	woofer 8" + tweeter 1"
Speaker impedance	8Ω
Dimensions	255x255x87mm
Hole dimensions	225x225mm
Material	ABS/steel
Colour	white
Weight	2,2Kg

Connection



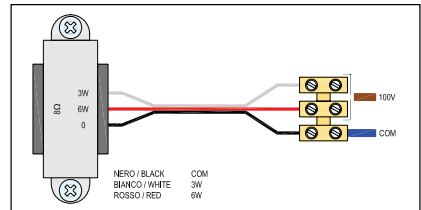
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3W
Transformer impedance	1,67/3,33KΩ
Frequency response	120 ÷ 20000Hz
S.P.L. 1W@1m	87 ±3dB
Speaker type	2,5" full range
Speaker impedance	8Ω
Dimensions	ø103mm x 75mm
Hole dimensions	ø92mm
Material	ABS/steel
Colour	white
Weight	0,5Kg

Connection



6W RECESSED SPEAKER

DCP2017/T6 B	Code 1900-241061
DCP2017/T6 N	Code 1900-241062
DCP2017/T6 G	Code 1900-241063

10W RECESSED SPEAKER

DCP2017/T10 B	Code 1900-241101
DCP2017/T10 N	Code 1900-241102
DCP2017/T10 G	Code 1900-241103

10W RECESSED 2-WAY SPEAKER

DCP2017/2T10 B	Code 1900-242101
DCP2017/2T10 N	Code 1900-242102
DCP2017/2T10 G	Code 1900-242103



Stylish speaker for excellent playback quality of voice announcements and background music. Self-extinguishing ABS body with painted metal grille, provided with rotary hooks for easy and quick installation in false ceilings. Alternatively, it can be installed on the wall with GEWISS PT5 recessed box (not supplied). Complete with line transformer with selectable power for better adjustment of sound level.

Stylish speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity playback. Self-extinguishing ABS body with painted metal grille, provided with rotary hooks for easy and quick installation in false ceilings. Alternatively, it can be installed on the wall with GEWISS PT5 recessed box (not supplied).

Complete with line transformer with selectable power for better adjustment of sound level.

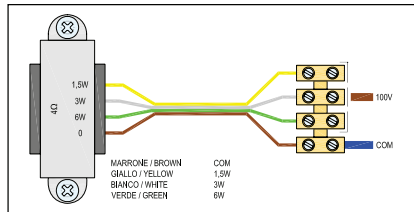
Perspective View



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling/wall
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,67/3,33/6,66KΩ
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	92dB
Speaker type	4" Bicono
Speaker impedance	4Ω
Dimensions	195x166x55mm
Hole dimensions	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	0,9Kg

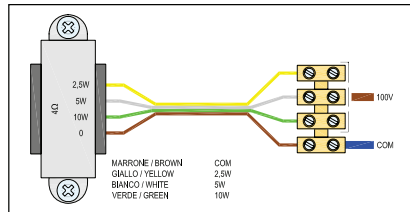
Connection



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling/wall
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bicono
Speaker impedance	4Ω
Dimensions	195x166x55mm
Hole dimensions	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

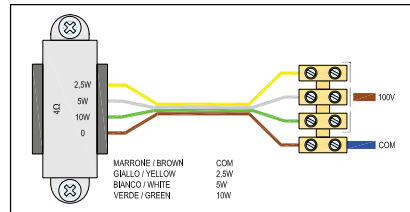
Connection



TECHNICAL SPECIFICATIONS

Type	recessed in false ceiling/wall
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" 2 vie
Speaker impedance	4Ω
Dimensions	195x166x55mm
Hole dimensions	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

Connection



10W RECESSED SPEAKER

DIP2517/T10 B

DIP2517/T10 N

Code 1900-206101

Code 1900-206102



Square speaker for excellent playback quality of voice announcements and background music. Wooden body with ABS sides and painted metal grille, suitable for wall installation with recessed box type VIMAR 16895 (not supplied). Complete with line transformer.

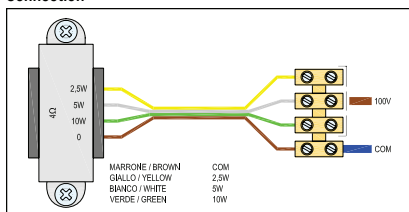
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall recessed
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4K Ω
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bicone
Speaker impedance	4 Ω
Dimensions	254x168x45mm
Hole dimensions	170x100mm
Material	wood/steel/ABS
Colour	white, black
Weight	1,2Kg

Connection



6W WALL SPEAKER

DP2512/T6SE R
DP2512/T6SE B

Code 1900-451064
Code 1900-451061

10W WALL SPEAKER

DP2512/T10 R
DP2512/T10 B

Code 1900-451104
Code 1900-451101



Wall-mount speaker for excellent playback quality of voice announcements and background music. Polycarbonate self-extinguishing body in class V2. Complete with line transformer with selectable power for better adjustment of sound level. Provided with ceramic terminal and thermal fuse for exclusion from line in case of temperatures higher than 110° C. Specific for emergency message broadcasting.

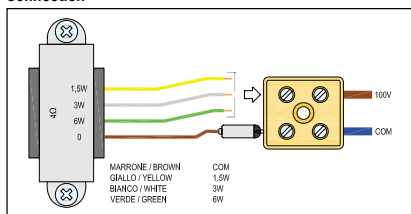
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall-projecting
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,67/3,33/6,66KΩ
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	92dB
Speaker type	4" bicone
Speaker impedance	4Ω
Dimensions	250x120x73mm
Max. protrusion	73mm
Material	ABS
Colour	white, red
Weight	0,9Kg

Connection



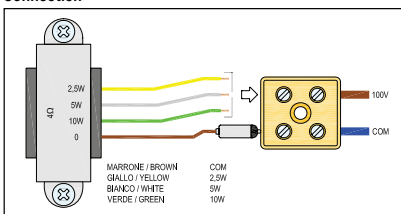
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall-projecting
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bicone
Speaker impedance	4Ω
Dimensions	250x120x73mm
Max. protrusion	73mm
Material	ABS
Colour	white, red
Weight	1Kg

Connection



6W WALL SPEAKER

DP2512/T6 B
DP2512/T6 N
DP2512/T6 G

Code 1900-251061
Code 1900-251062
Code 1900-251063

10W WALL SPEAKER

DP2512/T10 B
DP2512/T10 N
DP2512/T10 G

Code 1900-251101
Code 1900-251102
Code 1900-251103



Wall-mount speaker for excellent playback quality of voice announcements and background music. Polycarbonate self-extinguishing body in class V2. Complete with line transformer with selectable power for better adjustment of sound level.

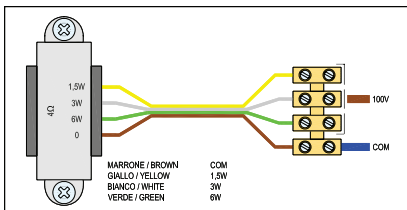
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall-projecting
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,67/3,33/6,66KΩ
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	92dB
Speaker type	4" bicone
Speaker impedance	4Ω
Dimensions	250x120x73mm
Max. protrusion	73mm
Material	ABS
Colour	white, clack, grey
Weight	0,9Kg

Connection



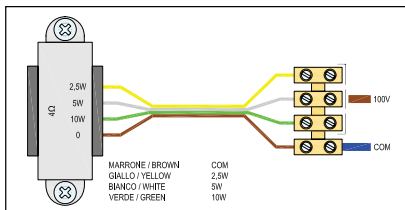
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall-projecting
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2.5W
Transformer impedance	1/2/4KΩ
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bicone
Speaker impedance	4Ω
Dimensions	250x120x73mm
Max. protrusion	73mm
Material	ABS
Colour	white, clack, grey
Weight	1Kg

Connection



6W WALL-FITTED SPEAKER

CP/T6 B
CP/T6 N
CP/T6 G

Code 1900-306061
Code 1900-306062
Code 1900-306063



Fashion speaker for excellent playback quality of voice announcements and background in applications that require high-fidelity playback. Self-extinguishing ABS body with painted metal grille, provided with ball joint for simple and quick wall mounting, indoor and outdoor (IP54). Complete with line transformer with selectable power for better adjustment of sound level.

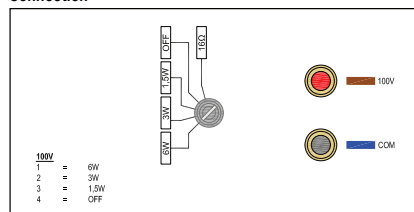
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3/1,5W
Transformer impedance	1,67/3,33/6,66K Ω
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	86dB
Speaker type	woofer 3,2" + tweeter 1"
Speaker impedance	16 Ω
IP protection degree	54
Dimensions	105x154x102(160)mm
Fixing	ball joint
Material	ABS/steel
Colour	white, black
Weight	0,9Kg

Connection



20W WALL-MOUNT SPEAKER

CP/T20E B
CP/T20E N

Code 1900-322201
Code 1900-322202



Fashion speaker with excellent quality of voice announcements and background music in applications that require high-fidelity sound. Self-extinguishing ABS body with painted metal grille, provided with adjustable C-bracket for easy installation on wall. Complete with line transformer with selectable power for better adjustment of sound level.

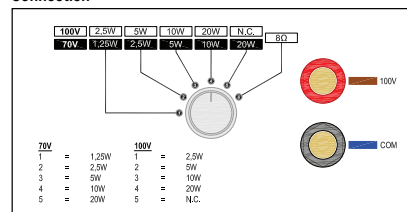
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4K Ω
Frequency response	100 ÷ 18000Hz
S.P.L. 1W@1m	89 ±3dB
Speaker type	woofer 4" + tweeter 1"
Speaker impedance	8 Ω
IP protection degree	50
Dimensions	160x235x145(160)mm
Fixing	U-bracket
Material	ABS/steel
Colour	white, black
Weight	2,3Kg

Connection



20W WALL-MOUNT SPEAKER

CP/T20 B
CP/T20 N

Code 1900-321201
Code 1900-321202

30W WALL-MOUNT SPEAKER

CP/T30 B
CP/T30 N

Code 1900-331301
Code 1900-331302



20W, 30W wall speaker. Elegant, suitable for quality reproduction of announcements and background music in environments requiring high acoustic output. ABS body with painted metal grille, adjustable "C" bracket included for quick and easy wall mounting. Complete with line transformer with selectable power for better sound level regulation.

Perspective View



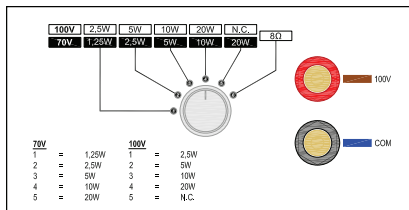
Staffa opzionale



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10/2.5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	50 ÷ 20000Hz
S.P.L. 1W@1m	92 ±3dB
Speaker type	woofer 4" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	50
Dimensions	160x280x155(170)mm
Fixing	C-bracket
Material	ABS/steel
Colour	white, black
Weight	2,1Kg

Connection



Perspective View



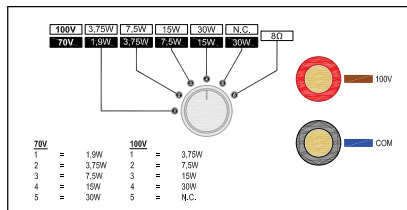
Staffa opzionale



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	30/15/7,5/3,75W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	93 ±3dB
Speaker type	woofer 5,25" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	50
Dimensions	175x300x165(180)mm
Fixing	SC-bracket
Material	ABS/steel
Colour	white, black
Weight	3,1Kg

Connection



60W SPEAKER CABINET

CPM/T60 B Code 1900-356601

40W SPEAKER CABINET

CPM/T40 B Code 1900-354401

30W SPEAKER CABINET

CPM/T30 B Code 1900-353301



60W, 40W, 30W wall speaker cabinet. Professional, suitable for quality reproduction of announcements and background music in environments requiring high acoustic output and fidelity. MDF body with painted metal grille, with adjustable bracket, for quick and easy wall mounting. Complete with line transformer with selectable power for better sound level regulation.

Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	60W
Intermediate power	60/30/15/7,5W
Transformer impedance	0,166/0,333/0,666/1,333KΩ
Frequency response	50 ÷ 20000Hz
S.P.L. 1W@1m	99 ±3dB
Speaker type	woofer 8" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	30
Dimensions	275x400x275(350)mm
Fixing	bracket with ball joint
Material	MDF/ABS/steel
Colour	white
Weight	7,8Kg

Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	40W
Intermediate power	40/20/10/5W
Transformer impedance	0,25/0,5/1/2KΩ
Frequency response	80 ÷ 20000Hz
S.P.L. 1W@1m	98 ±3dB
Speaker type	woofer 6" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	30
Dimensions	230x330x230(305)mm
Fixing	bracket with ball joint
Material	MDF/ABS/steel
Colour	white
Weight	5,0Kg

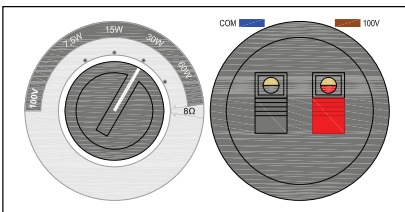
Perspective View



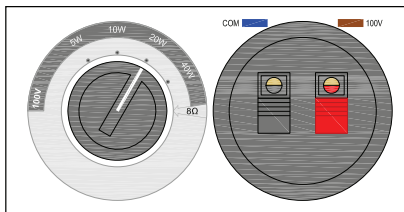
TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	30/15/7,5/3,75W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	100 ÷ 20000Hz
S.P.L. 1W@1m	98 ±3dB
Speaker type	woofer 5" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	30
Dimensions	185x275x185(255)mm
Fixing	bracket with ball joint
Material	MDF/ABS/steel
Colour	white
Weight	3,0Kg

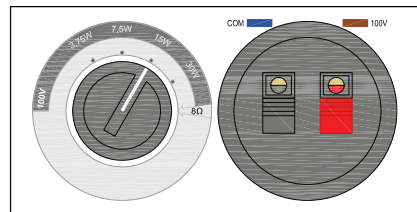
Connection



Connection



Connection



30W WALL-MOUNT SPEAKER

CPA/T30 B
CPA/T30 N

Code 1900-373301
Code 1900-372202

20W WALL-MOUNT SPEAKER

CPA/T20 B
CPA/T20 N

Code 1900-372201
Code 1900-372202

NEW



30W, 20W corner wall speaker. Elegant, suitable for quality reproduction of announcements and background music in environments requiring high acoustic output. ABS body with painted metal grille, sliding bracket for quick and easy wall mounting. Complete with line transformer with selectable power for better sound level regulation.

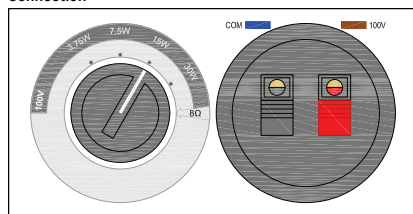
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	30/15/7,5/3,75W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	130 ÷ 20000Hz
S.P.L. 1W@1m	93 ±3dB
Speaker type	woofer 5" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	50
Dimensions	230x310x190mm
Fixing	bracket slide
Material	ABS self-extinguishing
Colour	white, black
Weight	2,0Kg

Connection



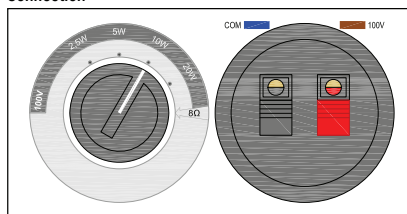
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	160 ÷ 20000Hz
S.P.L. 1W@1m	92 ±3dB
Speaker type	woofer 3,5" + tweeter 1"
Speaker impedance	8Ω
IP protection degree	50
Dimensions	190x265x165mm
Fixing	bracket slide
Material	ABS/steel
Colour	white, black
Weight	1,4Kg

Connection



10W COLUMN SPEAKER

CS2/T10

Code 1900-142101

20W COLUMN SPEAKER

CS4/T20

Code 1900-144201

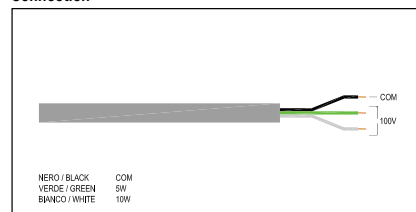


Speaker with excellent voice quality in applications with reverb problems (churches, conference rooms, etc.). Aluminium extruded body with painted metal grille, provided with adjustable brackets for easy and quick wall-mount. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5W
Transformer impedance	1/2K Ω
Frequency response	170 ÷ 15000Hz
S.P.L. 1W@1m	88 \pm 3dB
Speaker type	2 x 2,5" full range
Speaker impedance	4 Ω
IP protection degree	40
Dimensions	106x262x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	1,4Kg

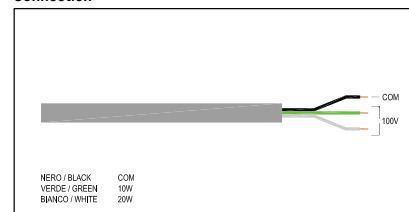
Connection



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10W
Transformer impedance	0,5/1K Ω
Frequency response	170 ÷ 15000Hz
S.P.L. 1W@1m	91 \pm 3dB
Speaker type	4 x 2,5" full range
Speaker impedance	8 Ω
IP protection degree	40
Dimensions	106x405x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	2,0Kg

Connection



30W COLUMN SPEAKER

CS6/T30

Code 1900-146301

40W COLUMN SPEAKER

CS8/T40

Code 1900-148401

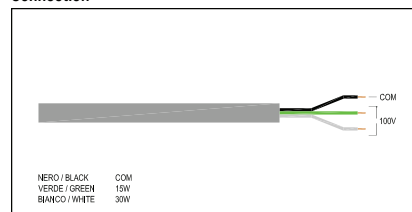


Speaker with excellent quality in applications with reverb problems (churches, conference rooms, etc.). Aluminium extruded body with painted metal grille, provided with adjustable brackets for easy and quick wall-mount.
Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	30/15W
Transformer impedance	0,333/0,666KΩ
Frequency response	170 ÷ 15000Hz
S.P.L. 1W@1m	92 ±3dB
Speaker type	6 x 2,5" Full Range
Speaker impedance	12Ω
IP protection degree	40
Dimensions	106x548x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	2,8Kg

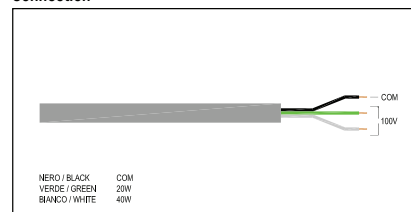
Connection



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	40W
Intermediate power	40/20W
Transformer impedance	0,25/0,5KΩ
Frequency response	170 ÷ 15000Hz
S.P.L. 1W@1m	93 ±3dB
Speaker type	8 x 2,5" full range
Speaker impedance	16Ω
IP protection degree	40
Dimensions	106x690x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	3,5Kg

Connection



30W COLUMN SPEAKER

CS10/T30

Code 1900-150301

40W COLUMN SPEAKER

CS15/T40

Code 1900-155401

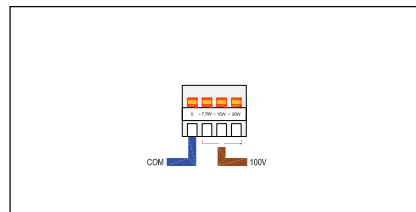


Elegant speaker for professional use for excellent voice quality in applications with reverb problems (churches, conference rooms, etc.). Aluminium extruded body with painted metal grille, provided with adjustable brackets for easy and quick wall-mount. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	130/15/7,5W
Transformer impedance	0,333/0,666/1,333K Ω
Frequency response	200 ÷ 16000Hz
S.P.L. 1W@1m	106dB
Speaker type	10 x 2" Full Range
Speaker impedance	8 Ω
IP protection degree	40
Dimensions	65x673x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	3,3Kg

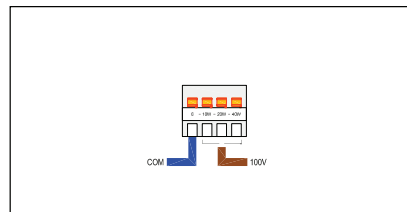
Connection



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	40W
Intermediate power	40/20/10W
Transformer impedance	0,25/0,5/1K Ω
Frequency response	200 ÷ 15000Hz
S.P.L. 1W@1m	109dB
Speaker type	15 x 2" full range
Speaker impedance	8 Ω
IP protection degree	40
Dimensions	65x942x75mm
Fixing	no. 2 L-brackets
Material	aluminium
Colour	white
Weight	4,5Kg

Connection



20W SPHERICAL SPEAKER

DS26/T20

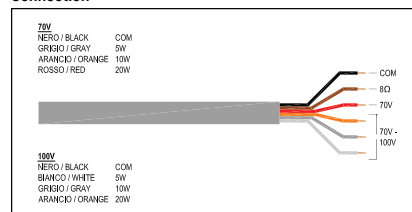
Code 1900-261201



Suspended speaker for excellent playback quality of voice announcements and background music in applications with high ceilings. Anti-shock ABS body with cable used for fixing. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	suspended spherical
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10/5W
Transformer impedance	0,5/1/2KΩ
Frequency response	120 ÷ 20000Hz
S.P.L. 1W@1m	104dB
Speaker type	6,5" full range
Speaker impedance	8Ω
IP protection degree	44
Dimensions	ø265mm x 234mm
Lunghezza cavo	4,5m
Material	ABS
Colour	white
Weight	2,2Kg

Connection**20W SPHERICAL SPEAKER**

DS25/T20

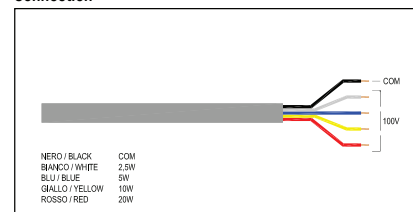
Code 1900-262201



Suspended omnidirectional speaker for excellent sound quality of voice announcements and background music in applications with high ceilings. Anti-shock ABS body with cable used for fixing. Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	suspended spherical
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	80 ÷ 18000Hz
S.P.L. 1W@1m	92 ±3dB
Speaker type	8" bicone
Speaker impedance	8Ω
IP protection degree	44
Dimensions	ø250mm
Lunghezza cavo	2,8m
Material	ABS
Colour	white
Weight	2,2Kg

Connection

10W WATERPROOF SOUND PROJECTOR

PSS/T10SE
PSS/T10

Code 1900-471101
Code 1900-171101

20W WATERPROOF SOUND PROJECTOR

PSS/T20SE
PSS/T20

Code 1900-471201
Code 1900-171201



Unidirectional speaker for excellent quality of voice announcements in applications that require high efficiency in the maximum emission direction. It reduces reverb due to reflection of back and lateral walls, floor and ceiling. Aluminium extruded body with painted metal grille, provided with adjustable U-bracket for easy simple and quick wall mounting, indoor and outdoor (IP56). Complete with line transformer with selectable power for better adjustment of sound level. Provided with ceramic terminal and thermal fuse for exclusion from line in case of temperatures higher than 110°C. Specific for emergency message broadcasting.

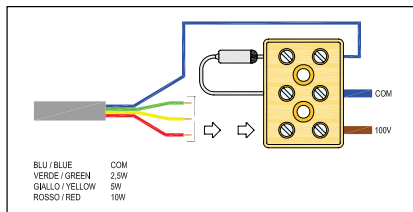
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	130 ÷ 15000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	5" full range
Speaker impedance	8Ω
IP protection degree	56
Dimensions	ø142mm x 207mm
Fixing	U-bracket
Material	aluminium
Colour	white
Weight	2,2Kg

Connection



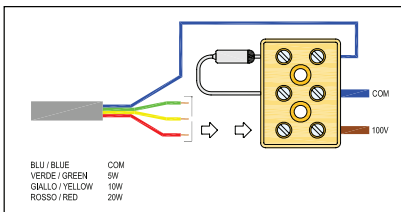
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	130 ÷ 15000Hz
S.P.L. 1W@1m	107dB
Speaker type	5" full range
Speaker impedance	8Ω
IP protection degree	56
Dimensions	ø142mm x 207mm
Fixing	U-bracket
Material	aluminium
Colour	white
Weight	2,4Kg

Connection



10W WATERPROOF BIDIRECTIONAL SOUND PROJECTOR

PSSBD/T10SE

Code 1900-472101 | PSSBD/T10

Code 1900-172101



Bidirectional speaker for excellent playback quality of voice announcements in applications that require high efficiency in maximum emission directions. It reduces reverb due to reflections of back and lateral walls, floor and ceiling. Aluminium extruded body with painted metal grille, provided with adjustable U-bracket for easy simple and quick wall mounting, indoor and outdoor (IP56). Complete with line transformer with selectable power for better adjustment of sound level. Provided with ceramic terminal and thermal fuse for exclusion from line in case of temperatures higher than 110°C. Specific for emergency message broadcasting.

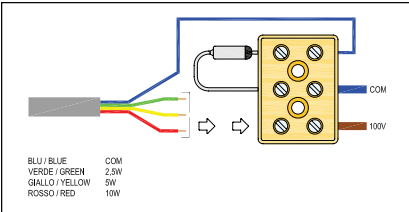
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	150 ÷ 14000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	2 x 5" full range
Speaker impedance	2 x 4Ω
IP protection degree	56
Dimensions	ø142mm x 205mm
Fixing	U-bracket
Material	aluminium
Colour	white
Weight	2,9Kg

Connection



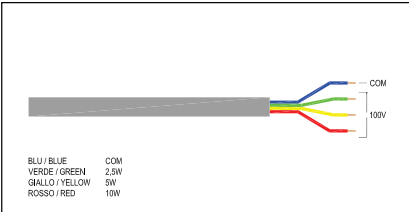
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	150 ÷ 14000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	2 x 5" full range
Speaker impedance	2 x 4Ω
IP protection degree	56
Dimensions	ø142mm x 205mm
Fixing	U-bracket
Material	aluminium
Colour	white
Weight	2,9Kg

Connection



6W SOUND PROJECTOR

PS/T6

Code 1900-271061

10W SOUND PROJECTOR

PS/T10

Code 1900-271101



Directional speaker for excellent quality of voice announcements in applications that require high efficiency in maximum emission directions. It reduces reverb caused by reflection of back and lateral walls, floor and ceiling. Self-extinguishing ABS body and grille provided with adjustable U-bracket for easy installation on walls. Complete with line transformer with selectable power for better adjustment of sound level.

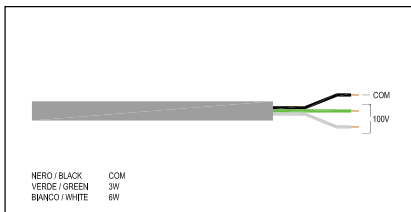
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	6W
Intermediate power	6/3W
Transformer impedance	1,67/3,33/6,66KΩ
Frequency response	130 ÷ 15000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	5,5" full range
Speaker impedance	8Ω
IP protection degree	52
Dimensions	ø145mm x 197mm
Fixing	U-bracket
Material	ABS
Colour	white
Weight	1,6Kg

Connection



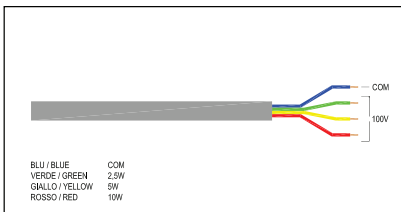
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	130 ÷ 15000Hz
S.P.L. 1W@1m	92 ±3dB
Speaker type	5" full range
Speaker impedance	8Ω
Grado di protezione	52
Dimensions	ø137mm x 200mm
Fixing	U-bracket
Material	ABS
Colour	white
Weight	1,8Kg

Connection



20W HORN SPEAKER

DTA/T20SE
DTA/T20

Code 1900-482203
Code 1900-182303

30W HORN SPEAKER

DTA/T30SE
DTA/T30

Code 1900-483303
Code 1900-183303



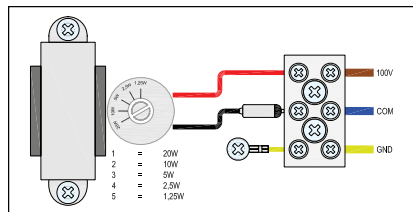
Speaker for excellent quality of voice announcements in applications that require high sound. Extruded aluminium body, round shape, provided with adjustable U-bracket for easy wall mount, indoor and outdoor (IP65). Complete with line transformer with selectable power for better adjustment of sound level. Provided with ceramic terminal and thermal fuse for exclusion from line in case of temperatures higher than 110°. Specific for emergency message broadcasting.

Perspective View

**TECHNICAL SPECIFICATIONS**

Type	wall
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/1/2/4KΩ
Frequency response	300 ÷ 16500Hz
S.P.L. 1W@1m	108dB
Speaker type	magnetodynamic unit
Speaker impedance	16Ω
IP protection degree	65
Dimensions	ø212mm x 295mm
Fixing	U-bracket
Material	aluminium
Colour	grey
Weight	3,0Kg

Connection

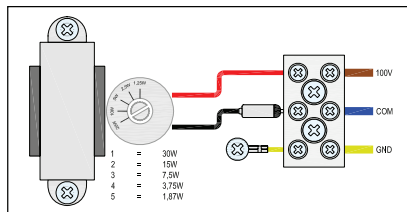


Perspective View

**TECHNICAL SPECIFICATIONS**

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	30/15/7,5/3,75W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	300 ÷ 16500Hz
S.P.L. 1W@1m	109dB
Speaker type	magnetodynamic unit
Speaker impedance	16Ω
IP protection degree	65
Dimensions	ø212mm x 295mm
Fixing	U-bracket
Material	aluminium
Colour	grey
Weight	3,1Kg

Connection



30W HORN SPEAKER

DT24/T30

Code 1900-285303

20W HORN SPEAKER

DT20/T20

Code 1900-284203

10W HORN SPEAKER

DT14/T10

Code 1900-283103



Small-sized speaker for excellent quality of voice announcements in applications that require high sound. UV-stabilised ABS body, round shape, provided with adjustable U-bracket for easy wall mount indoor and outdoor (IP64). Complete with line transformer with selectable power for better adjustment of sound level.

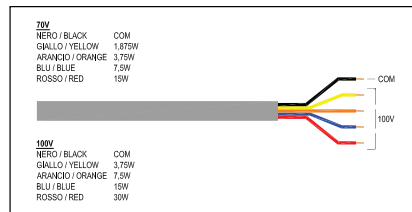
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	30/15/7,5/3,75W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	330 ÷ 8000Hz
S.P.L. 1W@1m	118dB
Speaker type	magnetodynamic unit
Speaker impedance	20Ω
IP protection degree	64
Dimensions	ø237mm x 290mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	2,6Kg

Connection



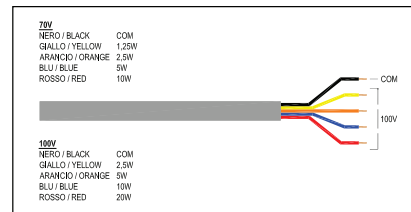
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10/5/2,5W
Transformer impedance	0,5/4/2/4KΩ
Frequency response	250 ÷ 8000Hz
S.P.L. 1W@1m	114dB
Speaker type	magnetodynamic unit
Speaker impedance	20Ω
IP protection degree	64
Dimensions	ø198mm x 258mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	1,9Kg

Connection



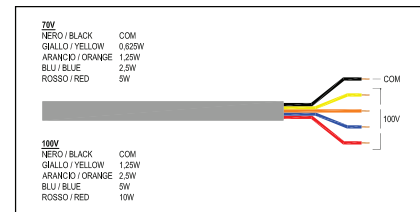
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	10W
Intermediate power	10/5/2,5W
Transformer impedance	1/2/4KΩ
Frequency response	400 ÷ 8000Hz
S.P.L. 1W@1m	107dB
Speaker type	magnetodynamic unit
Speaker impedance	16Ω
IP protection degree	64
Dimensions	ø138mm x 207mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	1,4Kg

Connection



20W HORN SPEAKER

DT3417/T20

Code 1900-282203

30W HORN SPEAKER

DT1812/T30

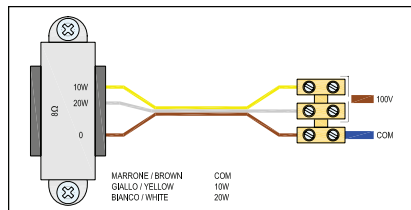
Code 1900-281303



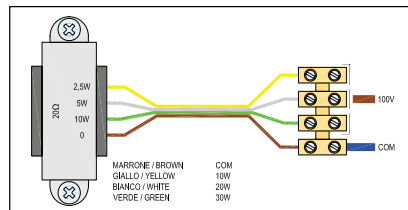
Speaker for excellent quality of voice announcements in applications that require high sound. Anti-shock ABS body, rectangular shape, provided with adjustable U-bracket for easy wall mount. Complete with line transformer with selectable power for better adjustment of sound level.

Perspective View**TECHNICAL SPECIFICATIONS**

Type	wall
Operating voltage	100V
Power RMS	20W
Intermediate power	20/10W
Transformer impedance	0,5K Ω
Frequency response	300 ÷ 15000Hz
S.P.L. 1W@1m	104dB
Speaker type	magnetodynamic unit
Speaker impedance	8 Ω
Grado di protezione IP	64
Dimensions	340x165x400mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	2,6Kg

Connection**Perspective View****TECHNICAL SPECIFICATIONS**

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	30/20/10W
Transformer impedance	0,333/0,5/1K Ω
Frequency response	400 ÷ 20000Hz
S.P.L. 1W@1m	106dB
Speaker type	magnetodynamic unit
Speaker impedance	20 Ω
IP protection degree	64
Dimensions	180x116x232mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	2,0Kg

Connection

30 MUSIC HORN SPEAKER

DT4427/T30

Code 1900-286303

60 MUSIC HORN SPEAKER

DT4427/T60

Code 1900-287603



Speaker for excellent quality of voice announcements and background music in applications that require high sound. UV-stabilised ABS body, rectangular shape, provided with adjustable U-bracket for easy wall mount indoor and outdoor (IP65). Complete with line transformer with selectable power for better adjustment of sound level.

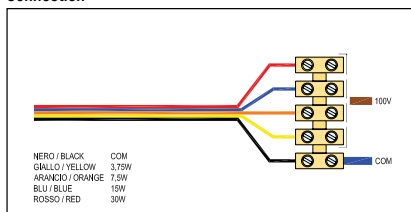
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	30W
Intermediate power	30/15/7,5/3,75W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	400 ÷ 20000Hz
S.P.L. 1W@1m	110dB
Speaker type	magnetodynamic unit
Speaker impedance	8Ω
IP protection degree	65
Dimensions	437x265x294mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	5,6Kg

Connection



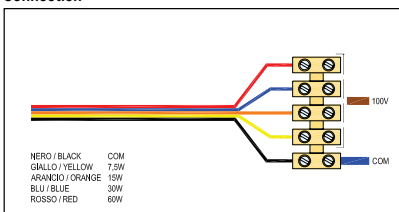
Perspective View



TECHNICAL SPECIFICATIONS

Type	wall
Operating voltage	100V
Power RMS	60W
Intermediate power	60/30/15/7,5W
Transformer impedance	0,333/0,666/1,333/2,666KΩ
Frequency response	65 ÷ 16500Hz
S.P.L. 1W@1m	114dB
Speaker type	magnetodynamic unit
Speaker impedance	8Ω
IP protection degree	65
Dimensions	437x265x294mm
Fixing	U-bracket
Material	ABS
Colour	grey
Weight	5,8Kg

Connection



30W SPEAKER FOR OUTDOOR USE

DGS1/T30 Code 1900-291305



30W SPEAKER FOR OUTDOOR USE

DGS2/T30 Code 1900-292305



30W SPEAKER FOR OUTDOOR USE

DGS3/T30 Code 1900-293305

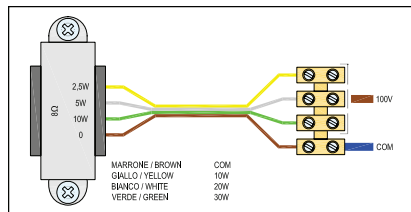


Speaker with excellent quality of voice announcements and background music for outdoor applications (gardens, avenues, etc.). Polyester resin body with stone-imitating shape, designed for simple and quick ground fixing in outdoor applications (IP53). Complete with line transformer with selectable power for better adjustment of sound level.

TECHNICAL SPECIFICATIONS

Type	ground
Operating voltage	100V
Power RMS	30W
Intermediate power	30/20/10W
Transformer impedance	0,333/0,5/1KΩ
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	water resistant bi-cone
Speaker impedance	2 x 4Ω
IP protection degree	53
Dimensions	330x300x280mm
Material	polyester resin
Colour	ivory
Weight	12,0Kg

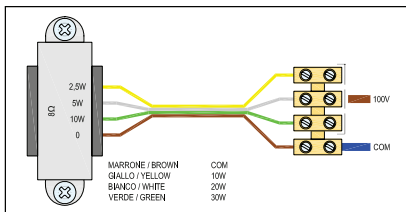
Connection



TECHNICAL SPECIFICATIONS

Type	ground
Operating voltage	100V
Power RMS	30W
Intermediate power	30/20/10W
Transformer impedance	0,333/0,5/1KΩ
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	water resistant bi-cone
Speaker impedance	2 x 4Ω
IP protection degree	53
Dimensions	280x270x250mm
Material	polyester resin
Colour	ivory
Weight	7,0Kg

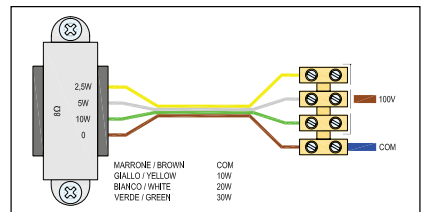
Connection



TECHNICAL SPECIFICATIONS

Type	ground
Operating voltage	100V
Power RMS	30W
Intermediate power	30/20/10W
Transformer impedance	0,333/0,5/1KΩ
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	water resistant bi-cone
Speaker impedance	2 x 4Ω
IP protection degree	53
Dimensions	400x200x250mm
Material	polyester resin
Colour	ivory
Weight	9,0Kg

Connection



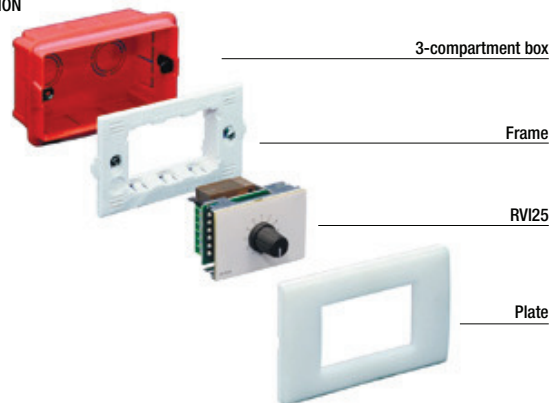
25W VOLUME CONTROL

RV125

Code 1600-211000



INSTALLATION



Maximum applicable power 25W. Adjustment in 10 steps with OFF position and MAX volume position. By-pass command activated by applying a 24Vdc voltage to the specific input to broadcast announcements also when the volume control is in OFF position. Suitable for installation in a standard model 503 recessed box. Available for frame types indicated below.

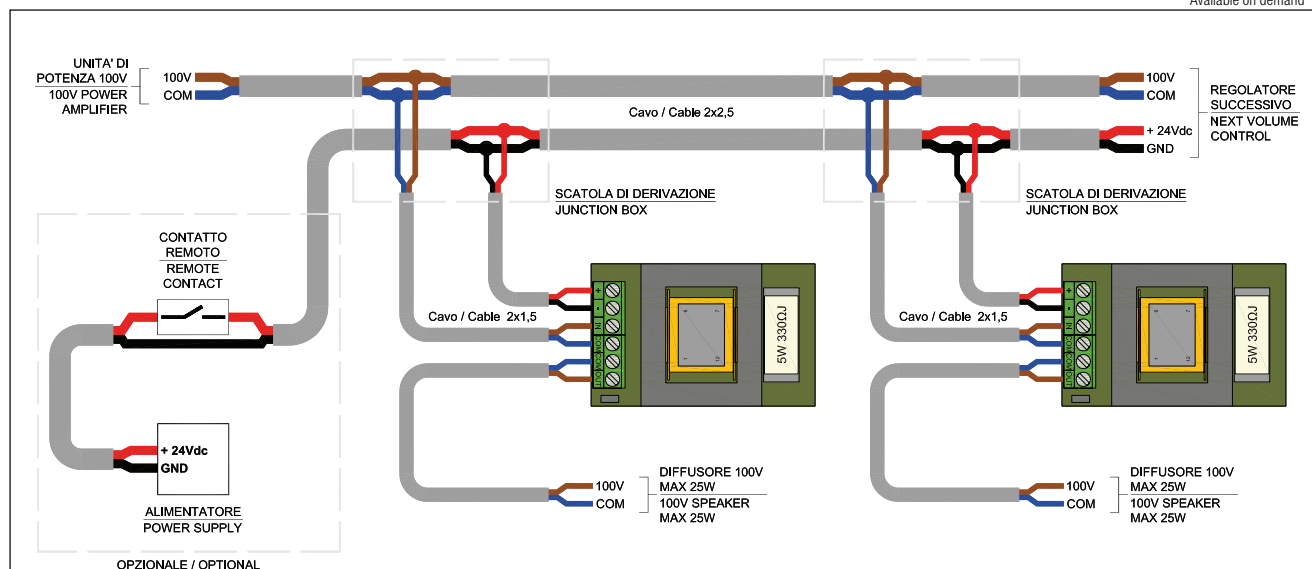
TECHNICAL SPECIFICATIONS

Attenuation steps in dB	3
Total attenuation in dB	30
Attenuation positions	11+OFF
Loss in dB	0,5
Power/consumption	24Vdc/10mA
Colour	white, grey, black
Material	metal/vetronite
Installation	recessed 503
Weight	0,3Kg

CODE	ITEM	FRAMES			AVAIL.
1601-211011	RV125 A1	AVE	Blanc	white	●
1601-	RV125 A2		Noir AX	black	○
1601-	RV125 A3		Banquise	white	○
1601-	RV125 A4		Domus 100	white	○
1601-	RV125 A5		RAL	white	○
1601-	RV125 A6		LIFE 44	black	○
1602-	RV125 BT0	TICINO	Magic	white	○
1602-	RV125 BT1		Living	black	○
1602-211022	RV125 BT2		Living Intern.	black	●
1602-211031	RV125 BT3		Light	white	●
1602-	RV125 BT4		Luna	white	○
1602-211053	RV125 BT5		Ligh-Tech	silver	●
1602-211061	RV125 BT6	GEWISS	Matix	white	●
1602-211073	RV125 BT7		Axolute	white	●
1602-211082	RV125 BT8		Axolute	white	●
1603-	RV125 G1		Playbus	white	○
1603-211022	RV125 G2		Playbus	black	●
1603-211031	RV125 G3		Chorus	white	●
1603-211043	RV125 G4		Chorus	silver	●
1603-211052	RV125 G5		Chorus	black	●
1603-	RV125 G6	LEGRAND	System 9000	white	○
1603-	RV125 G7		System 9000	black	○
1604-	RV125 L1		Cross	white	○
1604-	RV125 L2		Vela	black	○
1605-	RV125 S1	SIEMENS	Delta Futura	white	○
1605-	RV125 S2		Delta Futura	black	○
1606-	RV125 V0	VIMAR	8000	white	○
1606-	RV125 V1		Idea	white	○
1606-	RV125 V2		Idea	black	○
1606-	RV125 V3		Piana	white	○
1606-	RV125 V4		Eikon	silver	○
1606-	RV125 V5		Eikon	black	○
1606-	RV125 V6		Eikon	white	○
1606-	RV125 V7		Piana	grey	○

Available ●

Available on demand ○



80W ATTENUATOR

RVP80

Code 1600-201010



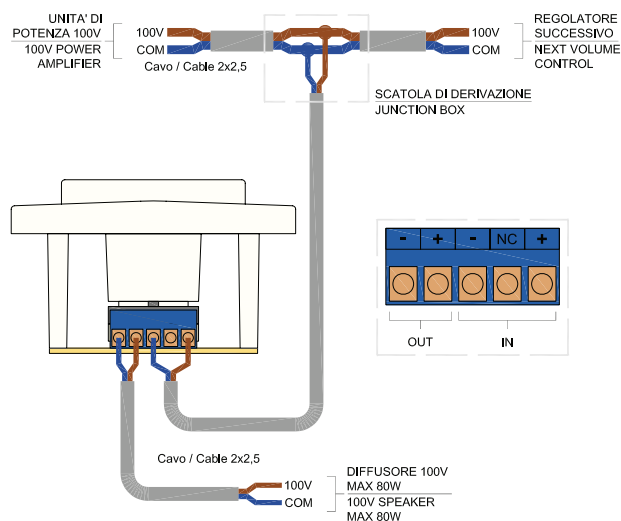
Maximum applicable power 80W. Adjustment with 10 steps, OFF position and MAX volume position.

Anti-shock ABS body suitable to wall installation.

White Colour.

TECHNICAL SPECIFICATIONS

Attenuation steps in dB	3
Total attenuation in dB	30
Attenuation positions	11+OFF
Loss in dB	0,5
Colour	white
Material	ABS
Installation	wall-projection
Weight	0,5Kg



LINE TRANSFORMER 6W - 10W - 30W

TL6 Power 6W, 3W, 1,5W

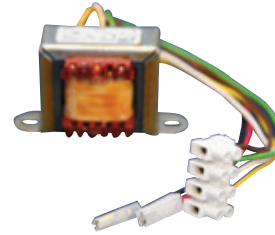
Code 1900-006010

TL10 Power 10W, 5W, 2,5W

Code 1900-010010

TL30 Power 30W, 20W, 10W

Code 1900-030010



Needed to adapt all 4/8 Ohm speakers to PA-100V installations.

CERAMIC CLAMP KIT

KMT

Code 1900-401010



Designed to adapt all the speakers used for emergency messages announcements.

MICROPHONE CABLE

C2022

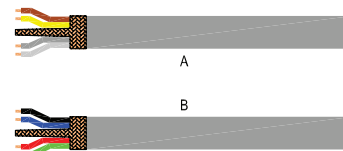
Code 1600-023100



2x0.22 microphone cable + screen, available in 100m reel.

C4025

Code 1600-041100



4x0.25 microphone cable + screen, available in 100m reel.

C2008

Code 1600-021100



2x0.08 microphone cable + screen, available in 100m reel.

C2014

Code 1600-022100



2x (1x0.14 + screen) microphone cable + screen, available in 100m reel.

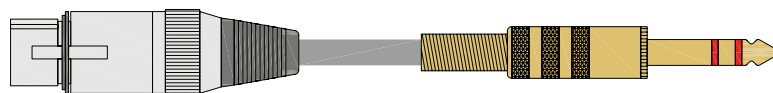


Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = FREDDO / COLD

PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = FREDDO / COLD

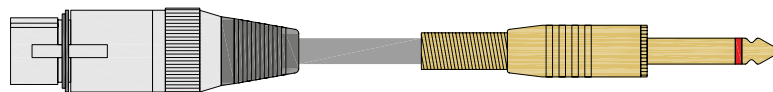


Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = FREDDO / COLD

TIP = CALDO / HOT
RING = FREDDO / COLD
SLEEVE = MASSA / GND



Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = MASSA / GND

TIP = CALDO / HOT
SLEEVE = MASSA / GND



Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



TIP = CALDO / HOT
RING = FREDDO / COLD
SLEEVE = MASSA / GND

TIP = CALDO / HOT
RING = FREDDO / COLD
SLEEVE = MASSA / GND

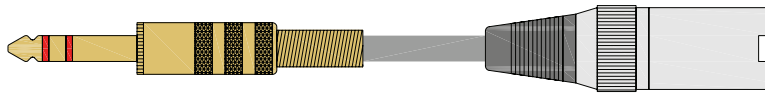


Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



TIP = CALDO / HOT
SLEEVE = MASSA / GND

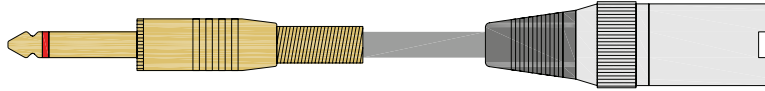
TIP = CALDO / HOT
SLEEVE = MASSA / GND



TIP = CALDO / HOT
RING = FREDDO / COLD
SLEEVE = MASSA / GND

PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = FREDDO / COLD

Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



TIP = CALDO / HOT
SLEEVE = MASSA / GND

PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = MASSA / GND

Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = +24Vdc
PIN 5 = PRIORITA' / PRIORITY

PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = +24Vdc
PIN 5 = PRIORITA' / PRIORITY

Cavo microfonico 4x0,25+Schermo
Shielded 4-wire AWG23 microphone cable



PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = +24Vdc
PIN 5 = PRIORITA' / PRIORITY

PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = +24Vdc
PIN 5 = PRIORITA' / PRIORITY

Cavo microfonico 4x0,25+Schermo
Shielded 4-wire AWG23 microphone cable



PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = NC
PIN 5 = NC

PIN 1 = MASSA / GND
PIN 2 = CALDO / HOT
PIN 3 = FREDDO / COLD

Cavo microfonico 4x0,25+Schermo
Shielded 4-wire AWG23 microphone cable

o / or
Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



PIN 1 = FREDDO / COLD
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = NC
PIN 5 = NC

TIP = CALDO / HOT
RING = FREDDO / COLD
SLEEVE = MASSA / GND

Cavo microfonico 4x0,25+Schermo
Shielded 4-wire AWG23 microphone cable
o / or
Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



PIN 1 = MASSA / GND
PIN 2 = MASSA / GND
PIN 3 = CALDO / HOT
PIN 4 = NC
PIN 5 = NC

TIP = CALDO / HOT
SLEEVE = MASSA / GND

Cavo microfonico 4x0,25+Schermo
Shielded 4-wire AWG23 microphone cable
o / or
Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



TIP = SINISTRO / LEFT
RING = DESTRO / RIGHT
SLEEVE = MASSA / GND

TIP = SINISTRO / LEFT
RING = DESTRO / RIGHT
SLEEVE = MASSA / GND

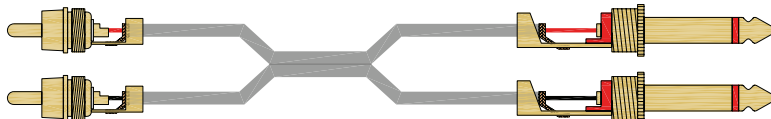
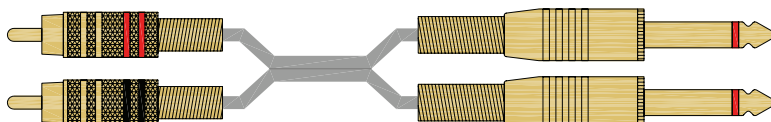
Cavo microfonico 2x0,22+Schermo
Shielded 2-wire AWG24 microphone cable



TIP BLACK = SINISTRO / LEFT
TIP RED = DESTRO / RIGHT
SLEEVE = MASSA / GND

TIP BLACK = SINISTRO / LEFT
TIP RED = DESTRO / RIGHT
SLEEVE = MASSA / GND

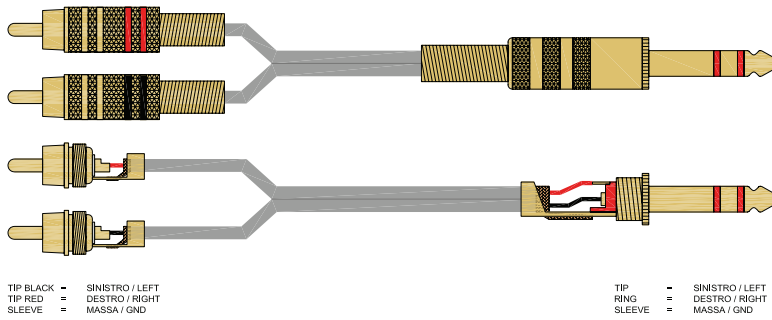
Cavo microfonico 2x(1x0,14+Schermo)
Shielded 2-wire AWG26 microphone cable



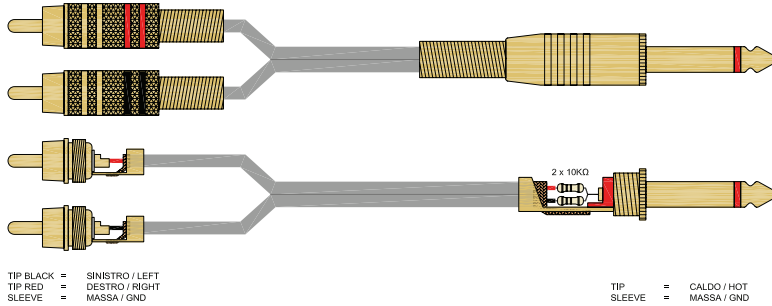
TIP BLACK = SINISTRO / LEFT
TIP RED = DESTRO / RIGHT
SLEEVE = MASSA / GND

TIP BLACK = SINISTRO / LEFT
TIP RED = DESTRO / RIGHT
SLEEVE = MASSA / GND

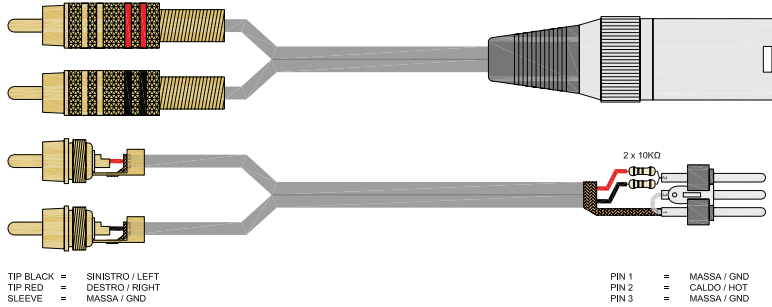
Cavo microfonico 2x(1x0,14+Schermo)
Shielded 2-wire AWG26 microphone cable



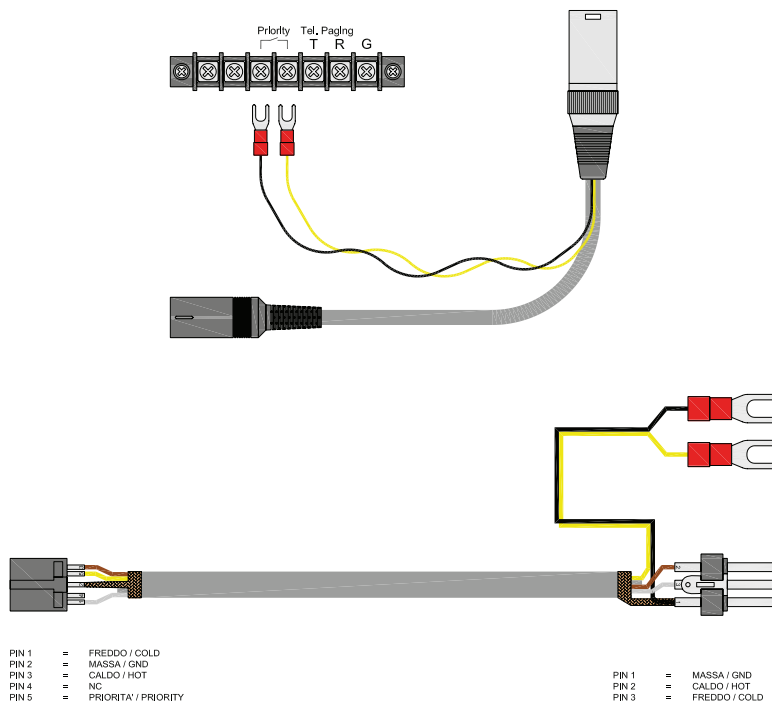
Cavo microfonico 2x(1x0,14+Scherma)
Shielded 2-wire AWG26 microphone cable



Cavo microfonico 2x(1x0,14+Scherma)
Shielded 2-wire AWG26 microphone cable

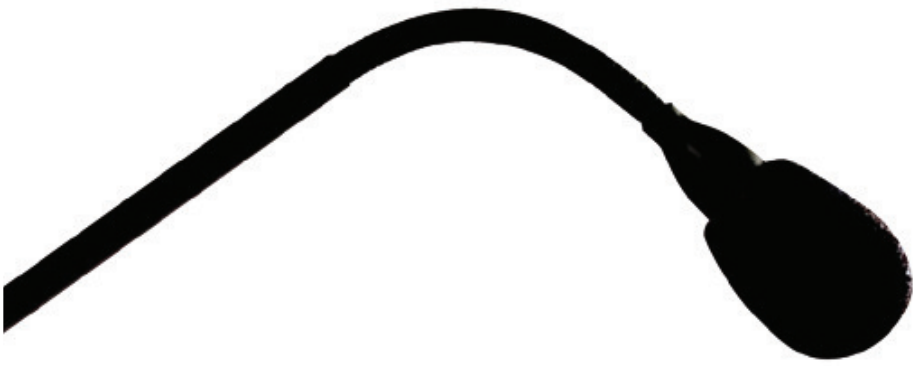


Cavo microfonico 2x(1x0,14+Scherma)
Shielded 2-wire AWG26 microphone cable



Cavo microfonico 4x0,25+Scherma
Shielded 4-wire AWG23 microphone cable





PA-ATTIVO

KALOS	Distributed power sound reinforcement system	78
	Small distributed power sound	84
AMPLIFIED SPEAKERS	Ceiling mount, wall mount, external sound speakers.....	86
PA-ATTIVO ACCESSORIES	Volume controls, amplifier module.....	94



GENERAL FEATURES

KALOS is an audio system that delivers special technical and economic benefits in all settings where voice announcements and background music must be broadcast in different areas with multiple operators.

Its operating principle is mainly based on the simultaneous transmission of both music and voice to all areas. The MZA or MZ100 interface modules address the signals to the area they are directed to, without interfering with ordinary broadcasting in other areas.

Applications:

- shopping centres;
- executive office buildings;
- hospitals;
- airports;
- stations;
- industries;
- schools;
- supermarkets;
- parking lots.

In distributed power systems the audio and control signals are sent by the Kalos control unit to all MZA zone modules connected in parallel over bus with C8020S cable. The audio signal is processed by each individual module and sent to all amplifier speakers in the area. Both the zone modules and amplified speakers must be powered with AS20/5 power supply units.

Composition of distributed power installation:

- one CSA800 control unit;
- one MZA zone module for each area to be controlled;
- "PA-ATTIVO" amplified speakers;
- One AS20/5 Power Supply unit every 20x10W speakers or every 5x20W speakers;
- BM800 peripheral microphone units (max. 64).

In "100V" systems the audio signals are sent by the CSA800 control unit to the amplifiers and then to all MZ100 zone modules connected in parallel, which receive the control signals directly from the control unit. The MZ100 zone modules can only process audio signals with power lower than 500W.

Composition of 100V installation:

- one CSA800 control unit;
- one MZ100 zone module for each area to be controlled;
- "PA-100V" amplified speakers;
- one AS20/5 power supply unit every 40 zone modules;
- one 100V amplifier for voice signal;
- one 100V amplifier for music signal 1 (optional);
- one 100V amplifier for music signal 2 (optional);
- BM800 peripheral microphone units (max. 64).

In "100V" systems, in case of areas with installed power higher than 500W, a mixed system can be made with MZA amplified zone modules in association with 100V amplifiers. This solution eliminates all installed power constraints.

Composition of 100V mixed installation:

- one CSA800 control unit;
- one MZA zone module for each area to be controlled;
- "PA-100V" amplified speakers;
- one AS20/5 power supply unit every 80 zone modules;
- one 100V amplifier for each area;
- BM800 peripheral microphone units (max. 64).

P.A./MUSIC MANAGEMENT UNIT

CSA800

Cod. 3100-101010



View from connections side



It controls max. 800 zones grouped in 80 areas. Functions include general call and zone and/or area calls with dual tone signal, if needed. Calls can be made from the console or BM800 peripheral microphone units (max. 64). The presence of one audio input for connection of GSV announcement generators allows broadcasting alarm messages with general call. Alternatively, the audio output of a telephone exchanger can be connected. All calls have priority over music programmes.

The three-memory FM tuner and two Aux inputs for external sound sources (CDs, tapes, etc.) available on the audio unit allow for distribution of two music signals, with possibility of choosing the signal to be broadcast in each zone. The audio (voice, music 1 and music 2) and control signals are sent over a bus with proprietary protocol. The volume of the individual audio signals, either in general call or in each zone, is adjusted directly from the console (only for systems with MZA amplified zone modules). The use of non-volatile memories (without batteries) allows for saving settings also in case of power failure.

The highly-functional ergonomic console made of shaped aluminium guarantees optimal use for the operator. The system is completed with high-resistance polyester membrane keyboard, backlit alphanumerical display with capacity of 80 characters in 4 lines and electret microphone with luminous ring. The audio connection is made with Centronics 50-way cable supplied with the system (1.8 m).

The painted metal audio unit is provided with: two Aux inputs for sound sources with TRS 6.3mm jack, one Audio/Data Bus output for zone modules with Sub-D 9-pole connector, one Audio/Data Bus for peripheral microphone units with Sub-D 15-pole connector, one RF input for FM radio antenna, one audio input for alarm messages or telephone exchanger with RCA connector associated with input for remote activation contact. The front is provided with trimmers to adjust the audio and signal controls.

TECHNICAL SPECIFICATIONS

Power supply	230Vac 50-60Hz
Absorption	7VA
Fuse	delayed T1A
Console body	moulded painted 30x10 aluminium polyester membrane keyboard
Audio unit chassis	bent painted sheet metal
Connection cable	centronics 50-way type, screened, 1.8m
Microphone	electret with luminous ring, max. H.450 mm
AUX input	sensitivity 100mV-4Vpp adjustable with internal trimmer
Tuner	FM, 87.5-108Mhz frequency range with 50Khz bass Automatic search and PLL sensitivity 1.5uV
Outputs	2 music programmes and 1 voice channel, low impedance Vpp
Control outputs	special system for connection in parallel, free type, operation from 200mV to 4Vpp

Audio unit



REMOTE MICROPHONE UNIT

BM800

Cod. 3100-141010



Base with gooseneck electret microphone, cardioid, with light ring, suitable for voice announcements in combination with Kalos control unit, for systems with max. 64 peripheral units.

Provided with flat keypad with one activation button of general call and one activation button of selective of zone/area indicated with ten numerical buttons. LED display to visualise operations in progress and two additional LEDs to indicate power voltage, busy line or ready to call.

Aluminium extruded body, ABS sides with support feet.

Complete with 12Vdc power socket for power supply unit supplied with it and 5m cable for line connection.

TECHNICAL SPECIFICATIONS

Output impedance	10KOhm
Output level	3Vpp
Frequency response	100-15000Hz
Power supply	12Vdc
Absorption	50mA
Microphone type	electret - 500mm rod

AMPLIFIED ZONE MODULE

MZA/D

Cod. 3100-111010



Local receiver of communication and audio signals to be processed and broadcast in a speaker zone. Housed in 6-module plastic container for DIN bar and provided with signal inputs and outputs on removable terminal block. Alternatively, the RJ45 screened plug connector can be used for signal input with link to next module. It is also provided with microswitch for numerical configuration, two status LEDs and one auxiliary "c/na/nc" contact. The audio output is designed for connection with "PA-ATTIVO" amplified speaker lines. Alternatively, it can be connected directly to the input of a power unit for management of 100V speaker lines.

The module needs 18Vdc power supply that can be received directly from the AS20/5 power supply unit that powers the speaker line connected to it.

TECHNICAL SPECIFICATIONS

Input impedance	10KOhm
Max output level	+8dB - 4Vpp
Frequency response	100 - 15000Hz
Power supply	18Vdc
Absorption	20mA

100 V ZONE MODULE FOR INSTALLATION IN RACK

MZ100/D

Cod. 3100/121010



Local receiver of communication and audio signals to be processed and broadcast in a speaker zone. Designed to be housed in CMZ10 concentrator and provided with microswitch for numerical configuration and two status LEDs. The connection inside the concentrator is made with strips on mother board to provide signal inputs and outputs on removable terminal block. The audio output is designed for connection with 100V amplified speaker lines.

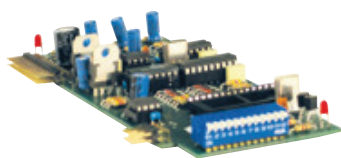
TECHNICAL SPECIFICATIONS

Power supply	18Vdc
Absorption	50mA

AMPLIFIED ZONE MODULE FOR INSTALLATION IN RACK

MZA/R

Cod. 3100-112010



TECHNICAL SPECIFICATIONS

Input impedance	10KOhm
Max output level	+8dB - 4Vpp
Frequency response	100 - 15000Hz
Power supply	18Vdc
Absorption	20mA

Local receiver of communication and audio signals to be processed and broadcast in a speaker zone. Designed to be housed in CMZ10 concentrator and provided with microswitch for numerical configuration and two status LEDs. The connection inside the concentrator is made with strips on mother board to provide signal inputs and outputs on removable terminal block. The audio output is designed for connection with "PA-ATTIVO" amplified speaker lines.

100V ZONE MODULE

MZ100/R

Cod. 3100-122010



TECHNICAL SPECIFICATIONS

Power supply	18Vdc
Absorption	50mA

Local receiver of communication and 100V audio signals to be processed and broadcast in a speaker zone. Housed in 6-module plastic container for DIN bar and provided with signal inputs and outputs on removable terminal block. Alternatively, the RJ45 screened plug connector can be used for input of communication signals only with transmission link to next module. It is also provided with microswitch for numerical configuration, two status LEDs and one auxiliary "c/na/nc" contact. The audio output is designed for connection with 100V speaker lines. The module needs 18Vdc power supply that can be received from the AS20/5 power supply unit.

CONCENTRATOR FOR ZONE MODULES

CMZ10

Cod. 3100-110010



Rack for amplified and/or 100 zone modules. It contains 10 modules. It is provided with input of communication and audio signals with Sub-D 9-pole connector with link to next concentrator.

For 100V audio signals the input connection is with removable terminal block. The output of audio signals both for amplified and 100V lines is with removable terminal block.

Designed for rack installation. Needs item KSA for correct support.

Volume: 2 UNITS.

ADDITIONAL POWER SUPPLY

AS20/5

Cod. 3100-131010



It can power max. 20 10W amplified speakers or 5 20W amplified speakers from "SM" series.

It also allows for powering MZA and/or MZ100 zone modules.

Made of painted metal and designed for wall or desktop installation.

TECHNICAL SPECIFICATIONS

Power supply	220Vdc
Absorption	120VA
Distributed voltage	18Vdc/4A
Dimensions	230x60x210mm
Colour	black
Weight	3,4Kg

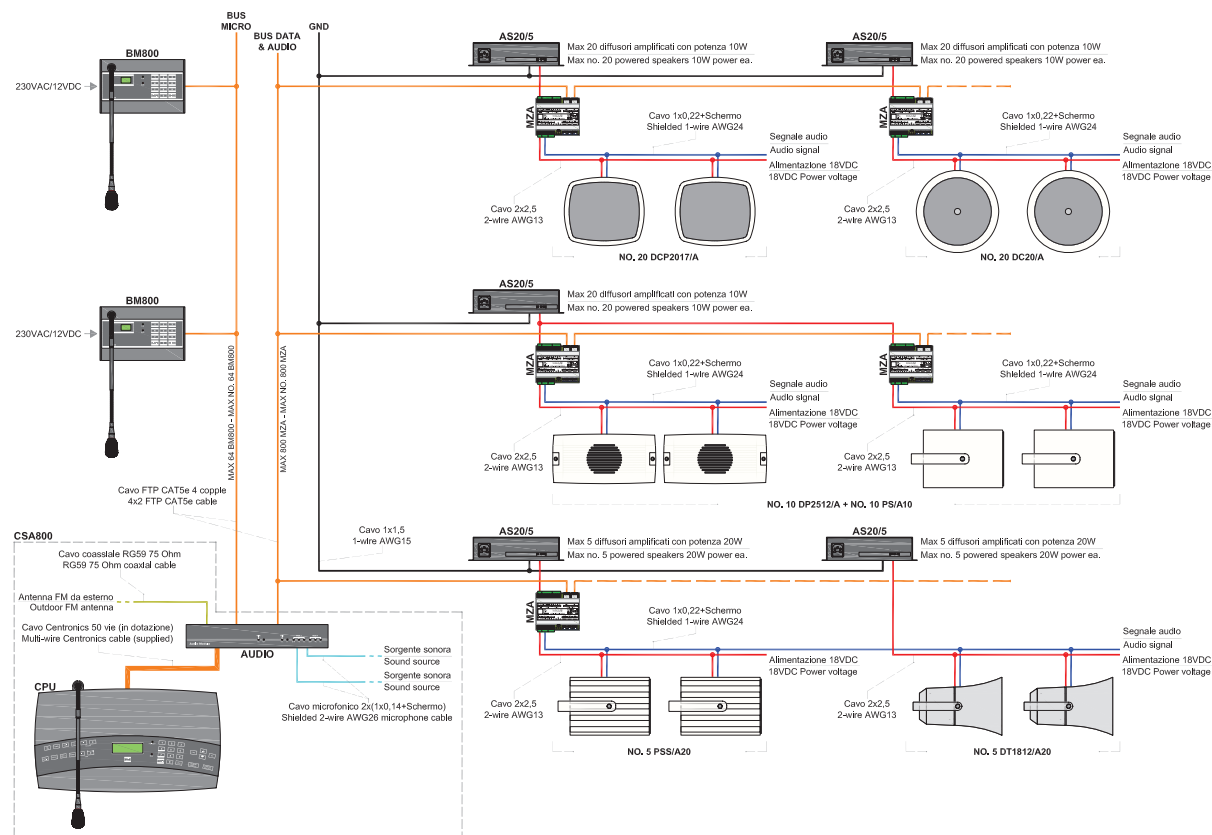
KALOS SYSTEM CONNECTION CABLE

C8020S

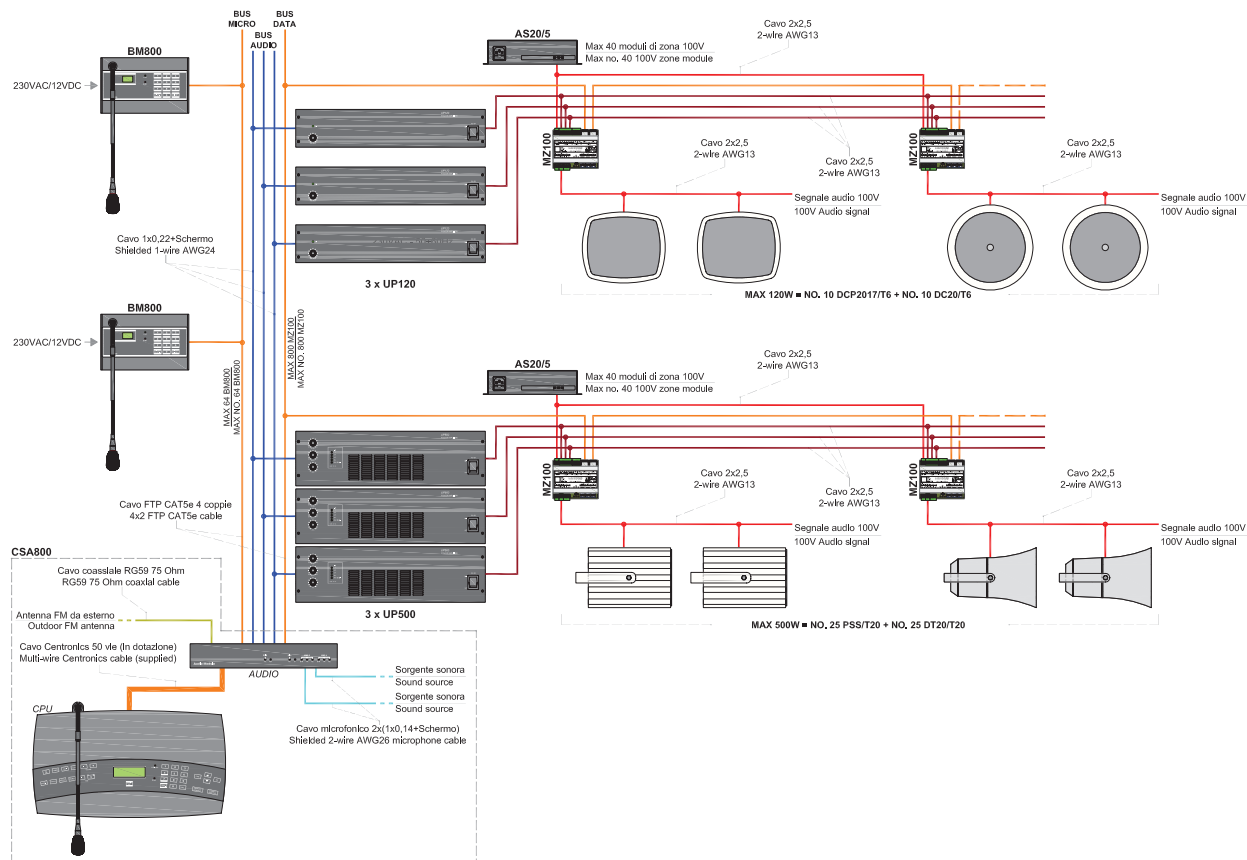
Cod. 3100-041010



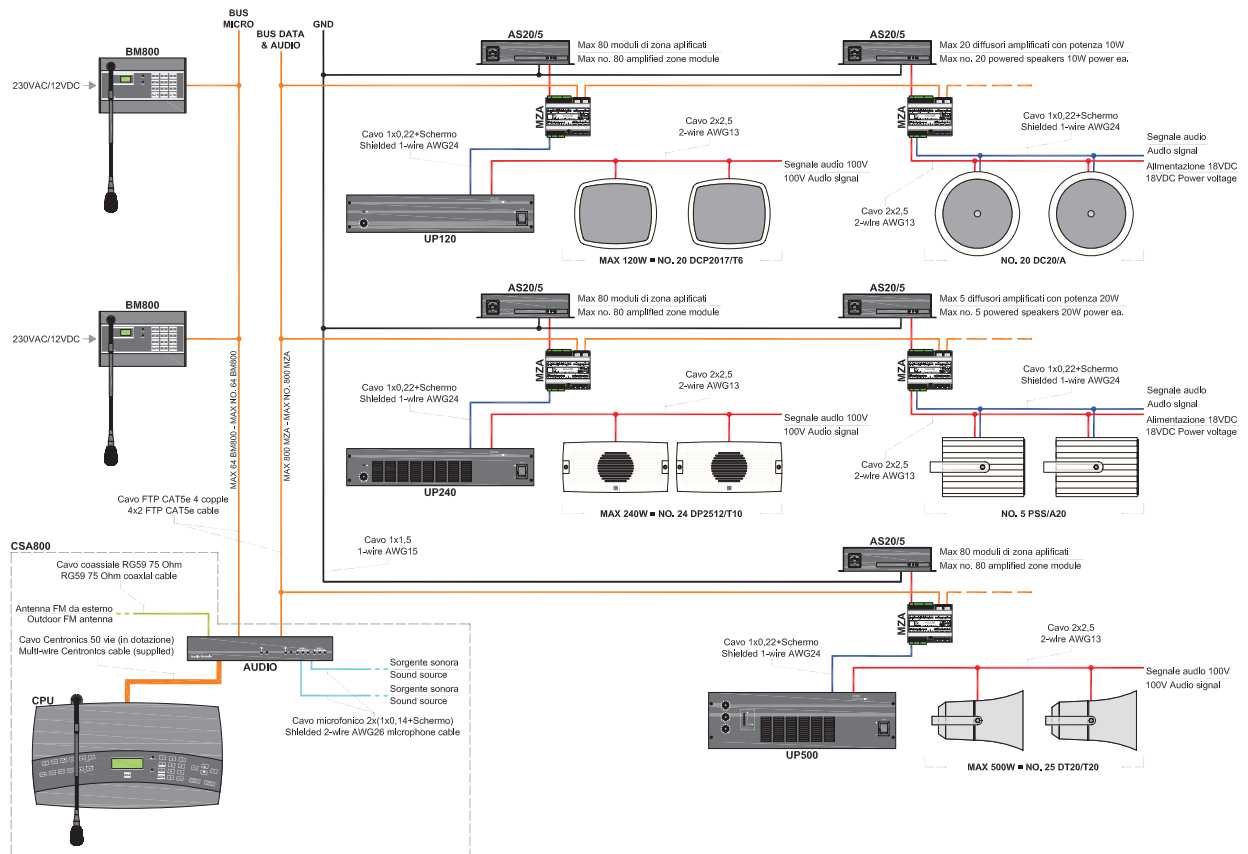
DISTRIBUTED POWER SYSTEM DIAGRAM



CONSTANT VOLTAGE (100V) SYSTEM DIAGRAM



CONSTANT VOLTAGE (100V) MIXED SYSTEM DIAGRAM



POWER SUPPLY UNIT- AMPLIFIER

A20/5

Cod. 3200-211010



Power supply unit with built-in amplifier / line driver, with one Aux input for connection of an external sound source (CD, cassette, etc.), and one input to process the signal from max. 3 BM800 microphone units for priority call on sound source.

It is also provided with adjustment of input level of the Aux signal and Mic signal, and adjustment of output signal level, prepared for connection with lines of "SM" amplified speakers.

It can power max. 20 10W amplified speakers or 5 20W amplified speakers. SM 1AS additional power supplies must be used for installations with a higher number of speakers.

Made of painted metal and designed for wall or desktop installation.

TECHNICAL SPECIFICATIONS

Aux input impedance	100KΩ
Aux input sensitivity	-12dB
Mic. input impedance	15KΩ
Output impedance	10Ω
Max output level	+8dB - 4Vpp
Power supply	220Vac
Absorption	120VA
Output voltage	18Vdc/4A
	12Vdc/1A - 9Vdc/0,5A
Dimensions	230x60x210mm
Colour	black
Weight	3,6Kg

POWER SUPPLY UNIT- AMPLIFIER

AD20/5

Cod. 3200-212010



Power supply unit with built-in amplifier / line driver with one Aux input for connection of an external sound source (CD, cassette, etc.), and one input to process the signal from max. BM800 microphone units for priority call on sound source with circuit activation to generate dual tone signal.

It is also provided with adjustment of input level of the Aux signal and Mic signal, and adjustment of output signal level, prepared for connection with lines of "SM" amplified speakers.

It can power max. 20 10W amplified speakers or 5 20W amplified speakers. SM 1AS additional power supplies must be used for installations with a higher number of speakers.

Made of painted metal and designed for wall or desktop installation.

TECHNICAL SPECIFICATIONS

Aux input impedance	100KΩ
Aux input sensitivity	-12dB
Mic. input impedance	15KΩ
Output impedance	10Ω
Max output level	+8dB - 4Vpp
Power supply	220Vac
Absorption	120VA
Output voltage	18Vdc/4A
	12Vdc/1A - 9Vdc/0,5A
Dimensions	230x60x210mm
Colour	black
Weight	3,6Kg

ADDITIONAL POWER SUPPLY UNIT

AS20/5

Cod. 3100-131010

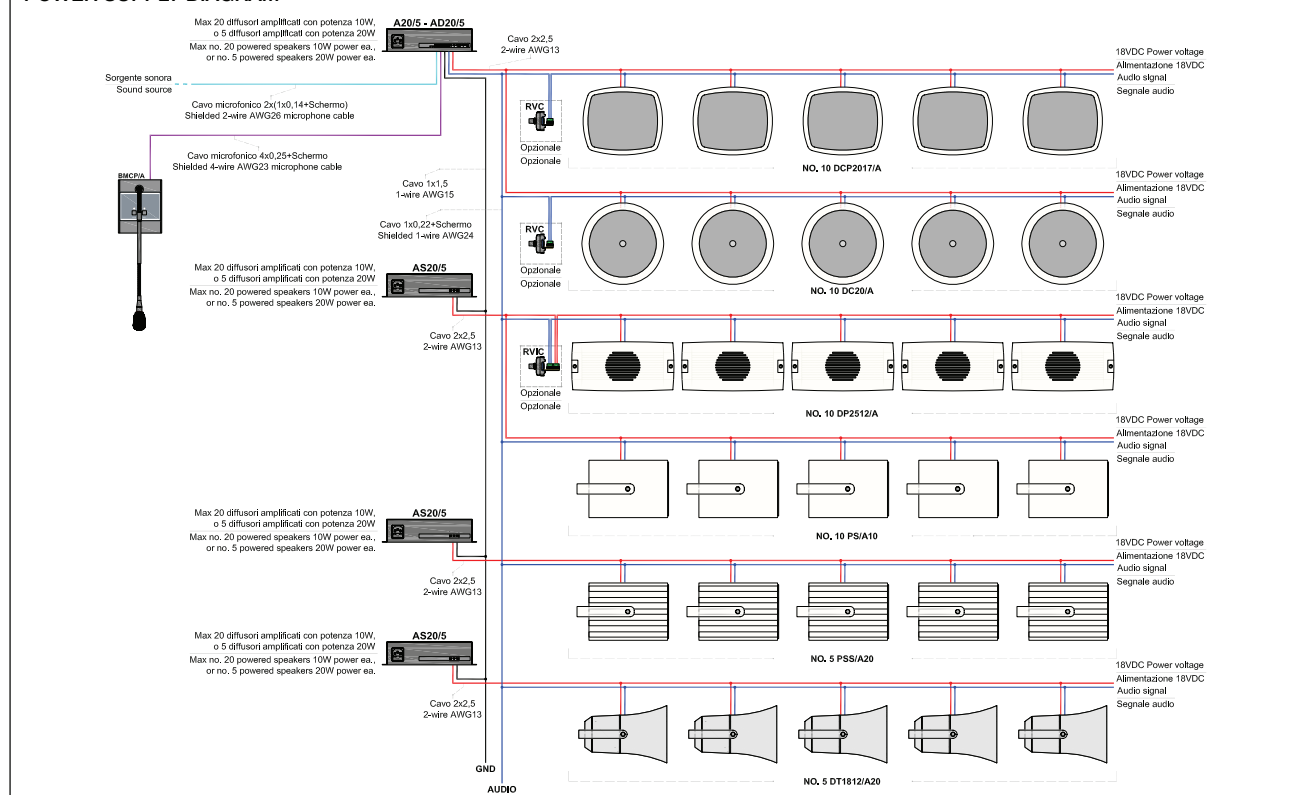


Power supply unit to drive 20 10W or 5 20W "PA-ATTIVO" and "AUDIO RSA" powered speakers. It enables to power zone MZA and/or MZ100 zone modules. In the multi-program systems it enables to power up to 20 "DOMUS" MCM mono or 5 MCS stereo modules. Made of painted metal and designed for wall or desktop installation.

TECHNICAL SPECIFICATIONS

Power supply	220Vac
Absorption	120VA
Output voltage	18Vdc/4A
Dimensions	230x60x210mm
Colour	black
Weight	3,4Kg

POWER SUPPLY DIAGRAM



PREAMPLIFIED MICROPHONE UNIT**BMCP/A**

Cod. 1800-221010



Unit with gooseneck electret microphone, cardioid, with light ring, suitable for voice announcements in combination with A20/5 or AD20/5 power supply. It can be also connected to message player GSV. Provided with one stable and one unstable button to activate microphone and priority contact for attenuation of source connected to same power supply, and activate circuit to generate the dual tone signal. Two LEDs indicate button activation. Powered directly from the power supply to which it is connected.

Aluminium extruded body, ABS sides with support feet.

Complete with 5m connection cable.

TECHNICAL SPECIFICATIONS

Output impedance	10K Ω
Output level	3Vpp
Frequency response	100÷15000Hz
Power supply	12Vdc
Absorption	50mA
Microphone type	electret - 500mm rod
Dimensions	206x550x130mm
Colour	black/grey
Weight	1,4Kg

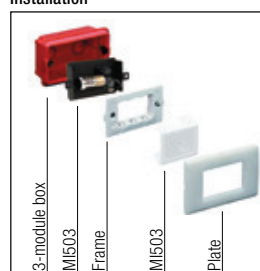
WALL-MOUNT MICROPHONE**MI503**

Cod. 3200-231000



High-sensitivity electret cardioid microphone that guarantees excellent voice quality in situations where the speaker is distant from the microphone. Combined with A20/5 amplified power supply. Microphone capsule and preamplifier circuit mounted on metal support with painted metal grille, suitable for installation in 503 recessed box (completely used).

Available in the civil series indicated below. Weight: 0,09 Kg.

Installation**TECHNICAL SPECIFICATIONS**

Input impedance	10K Ω
Output level	3Vpp
Frequency response	100÷15000Hz
Power supply	12Vdc
Absorption	50mA
Microphone type	electret

CODE	ART.	CIVIL SERIES			AVAILABLE
3201-	MI503 A1	AVE	Blanc	white	○
3201-	MI503 A2		Noir AX	black	○
3201-	MI503 A3		Banquise	white	○
3201-	MI503 A4		Domus 100	white	○
3201-	MI503 A5		RAL	white	○
3201-	MI503 A6		LIFE 44	black	○
3202-	MI503 BT0	TICINO	Magic	white	○
3202-231012	MI503 BT1		Living	black	●
3202-231022	MI503 BT2		Living Intern.	black	●
3202-231031	MI503 BT3		Light	white	●
3202-	MI503 BT4		Luna	white	○
3202-	MI503 BT5		Ligh-Tech	silver	○
3202-	MI503 BT6		Matix	white	○
3202-	MI503 BT7		Axolute	white	○
3202-	MI503 BT8	GEWISS	Axolute	white	○
3203-	MI503 G1		Playbus	white	○
3203-231022	MI503 G2		Playbus	black	●
3203-	MI503 G3		Chorus	white	○
3203-	MI503 G4		Chorus	silver	○
3203-	MI503 G5		Chorus	black	○
3203-	MI503 G6		System 9000	white	○
3203-	MI503 G7	LEGRAND	System 9000	black	○
3204-	MI503 L2		Cross	white	○
3205-	MI503 S1	SIEMENS	Delta Futura	white	○
3205-	MI503 S2		Delta Futura	black	○
3206-	MI503 V0	VIMAR	8000	white	○
3206-231011	MI503 V1		Idea	white	●
3206-231022	MI503 V2		Idea	black	●
3206-	MI503 V3		Plana	white	○
3206-	MI503 V4		Eikon	silver	○
3206-231052	MI503 V5		Eikon	black	●
3206-	MI503 V6		Eikon	white	○

Available ●
Available on demand ○

10W AMPLIFIED SPEAKER

DC20/A

Cod. 3400-120101



Ceiling-mount speaker for excellent playback quality of voice announcements and background music. Body and grille made of painted metal, provided with spring clips for easy installation in false ceiling. Complete with amplifier module with trimmer for better adjustment of sound level.

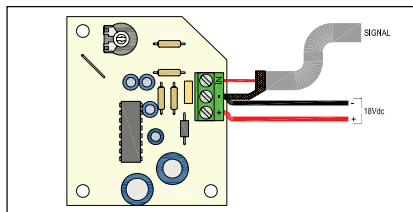
Perspective view



TECHNICAL SPECIFICATIONS

Type	ceiling mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	110 ÷ 15000Hz
S.P.L. 1W@1m	90 \pm 3dB
Speaker type	5" full range
Speaker impedance	8 Ω
Dimensions	\varnothing 200mm x 50mm
Dimensions of recessed hole	\varnothing 170mm
Material	steel
Colour	white
Weight	0,7Kg

Connection



10W AMPLIFIED SPEAKER

DC23/A

Cod. 3400-123101



Ceiling-mount high-efficiency speaker for excellent quality of voice announcements and background music in applications that require high-fidelity sound. Body and grille made of painted metal, provided with spring clips for easy installation in false ceiling. Complete with amplifier module with trimmer for better adjustment of sound level.

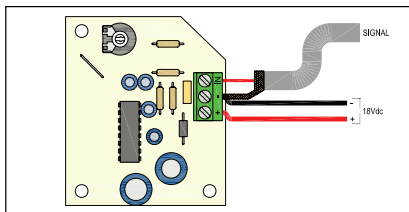
Perspective view



TECHNICAL SPECIFICATIONS

Type	ceiling mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	90 ÷ 18000Hz
S.P.L. 1W@1m	91 \pm 3dB
Speaker type	6" full range
Speaker impedance	8 Ω
Dimensions	\varnothing 230mm x 106mm
Dimensions of recessed hole	\varnothing 200mm
Material	steel
Colour	white
Weight	1,2Kg

Connection



10W AMPLIFIED SPEAKER

DC27/A

Cod. 3400-127101



Ceiling-mount high-efficiency speaker for excellent quality of voice announcements and background music. Body and grille made of painted metal, provided with spring clips for easy installation in false ceiling. Complete with amplifier module with trimmer for better adjustment of sound level.

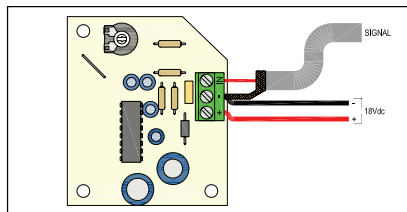
Perspective view



TECHNICAL SPECIFICATIONS

Type	ceiling mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	90 ÷ 18000Hz
S.P.L. 1W@1m	91 \pm 3dB
Type altoparlante	8" full range
Speaker impedance	8 Ω
Dimensions	\varnothing 266mm x 65mm
Dimensions of recessed hole	\varnothing 230mm
Material	steel
Colour	white
Weight	1,2Kg

Connection



10W CEILING MOUNT SPEAKER

DCR27/A

Cod. 3400-227101

**10W CEILING MOUNT SPEAKER**

DCQ25/A

Cod. 3400-254101



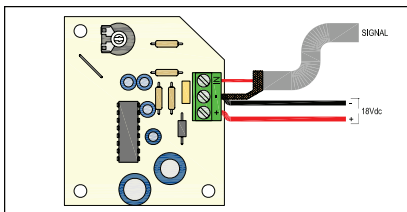
Ceiling mount speaker (round or square) for excellent quality of voice announcements and background music in applications that require high-fidelity sound. Self-extinguishing ABS body with painted metal grille, provided with rotary hooks for easy and quick installation in false ceilings. Complete with amplifier module with trimmer for better adjustment of sound level.

Perspective view

**TECHNICAL SPECIFICATIONS**

Type	ceiling mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	50 \div 20000Hz
S.P.L. 1W@1m	95 \pm 3dB
Speaker type	woofer 8" + tweeter 1"
Speaker impedance	8 Ω
Dimensions	270mm x 92mm
Dimensions of recessed hole	\varnothing 240mm
Material	ABS/steel
Colour	white
Weight	1,8Kg

Connection

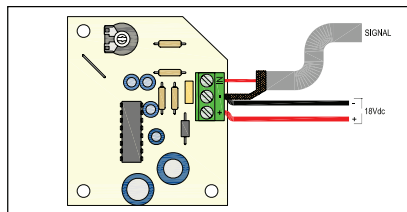


Perspective view

**TECHNICAL SPECIFICATIONS**

Type	ceiling mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	50 \div 18000Hz
S.P.L. 1W@1m	95 \pm 3dB
Speaker type	woofer 8" + tweeter 1"
Speaker impedance	8 Ω
Dimensions	255x255x87mm
Dimensions of recessed hole	225x225mm
Material	ABS/steel
Colour	white
Weight	2,2Kg

Connection



10W AMPLIFIED SPEAKER

DCP2017/A B
DCP2017/A N
DCP2017/A G

Cod. 3400-241101
Cod. 3400-241102
Cod. 3400-241103

10W 2-WAY AMPLIFIED SPEAKER

DCP2017/2A B
DCP2017/2A N
DCP2017/2A G

Cod. 3400-242101
Cod. 3400-242102
Cod. 3400-242103



Elegant speaker for excellent playback quality of voice announcements and background. Self-extinguishing ABS body with painted metal grille, provided with rotary hooks for easy installation in false ceilings. Alternatively, it can be installed on the wall with GEWISS PT5 recessed box (not supplied). Complete with amplifier module with trimmer for better adjustment of sound level.

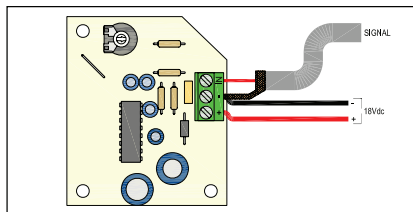
Perspective view



TECHNICAL SPECIFICATIONS

Type	ceiling / wall mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bi-cone
Speaker impedance	4 Ω
Dimensions	195x166x55mm
Dimensions of recessed hole	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

Connection



Elegant speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity playback. ABS self-extinguishing body with painted metal grille, provided with rotary hooks for easy installation in false ceilings. Alternatively, it can be installed on the wall with GEWISS PT5 recessed box (not supplied). Complete with amplifier module with trimmer for better adjustment of sound level.

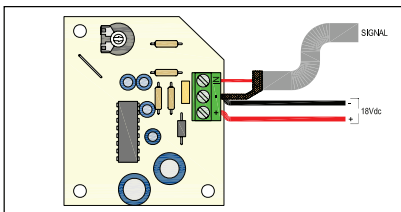
Perspective view



TECHNICAL SPECIFICATIONS

Type	ceiling / wall mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" 2 way
Speaker impedance	4 Ω
Dimensions	195x166x55mm
Dimensions of recessed hole	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

Connection



10W AMPLIFIED SPEAKER

DIP2517/A B
DIP2517/A N

Cod. 3400-206101
Cod. 3400-206102



Rectangular speaker for excellent playback quality of voice announcements and background music. Wooden body with ABS sides and painted metal grille, suitable for wall installation with recessed box type VIMAR 16895 (not supplied). Complete with amplifier module with trimmer for better adjustment of sound level.

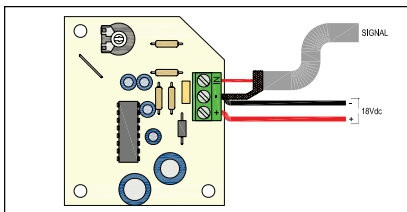
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall embedded
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	120 \div 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bi-cone
Speaker impedance	4 Ω
Dimensions	254x168x45mm
Dimensions of recessed hole	170x100mm
Material	wood/steel/ABS
Colour	white, black
Weight	1,2Kg

Connection



10W AMPLIFIED SPEAKER

DP2512/A B
DP2512/A N
DP2512/A G

Cod. 3400-251101
Cod. 3400-251102
Cod. 3400-251103



Wall-fitted speaker for excellent playback quality of voice announcements and background music. Polycarbonate self-extinguishing body in class V2. Complete with amplifier module with trimmer for better adjustment of sound level.

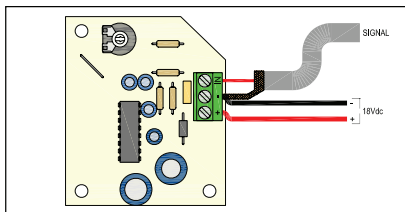
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	120 \div 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bi-cone
Speaker impedance	4 Ω
Dimensions	250x120x73mm
Sporgenza massima	73mm
Material	ABS
Colour	white, black, grey
Weight	1Kg

Connection



10W AMPLIFIED SPEAKER

CP/A B
CP/A N

Cod. 3400-322201
Cod. 3400-322202



Speaker with excellent quality of voice announcements and background music in applications that require high-fidelity sound. ABS self-extinguishing body with painted metal grille, provided with adjustable C-bracket for easy installation on walls. Complete with amplifier module with trimmer for better adjustment of sound level.

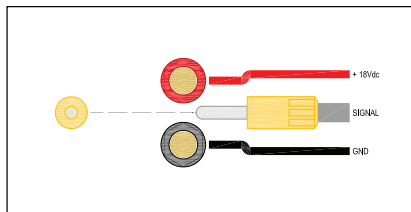
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	100 ÷ 18000Hz
S.P.L. 1W@1m	89 \pm 3dB
Speaker type	woofer 4" + tweeter 1"
Speaker impedance	8 Ω
Grado di protezione IP	50
Dimensions	160x235x145(160)mm
Fissaggio	C-Bracket
Material	ABS/steel
Colour	white, black
Weight	2,3Kg

Connection



20W WATERPROOF AMPLIFIED SOUND PROJECTOR

PSS/A20

Cod. 3400-171201



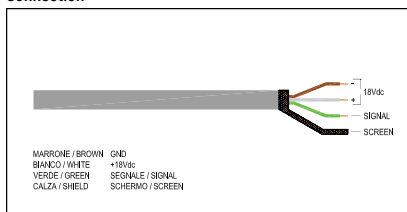
Unidirectional speaker for excellent quality of voice announcements in applications that require high efficiency in the maximum emission direction. It reduces reverb due to reflection of back and lateral walls, floor and ceiling. Aluminium extruded body with painted metal grille, provided with adjustable U-bracket for easy simple and quick wall mounting, indoor and outdoor (IP56). Complete with amplifier module with trimmer for adjustment of sound level.

Perspective view

**TECHNICAL SPECIFICATIONS**

Type	wall mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	130 \div 15000Hz
S.P.L. 1W@1m	91 \pm 3dB
Speaker type	5" full range
Speaker impedance	8 Ω
IP protection degree	56
Dimensions	\varnothing 142mm x 207mm
Fixing	U-Bracket
Material	aluminium
Colour	white
Weight	2,2Kg

Connection

**10W AMPLIFIED SOUND PROJECTOR**

PS/A10

Cod. 3400-271101



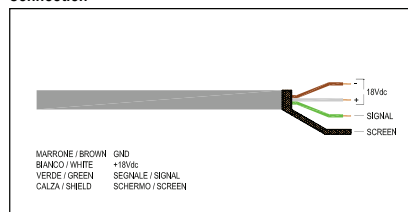
Unidirectional speaker for excellent quality of voice announcements in applications that require high efficiency in the maximum emission direction. It reduces reverb due to reflection of back and lateral walls, floor and ceiling. ABS self-extinguishing body and grille with adjustable U-bracket for easy and quick wall mount. Complete with amplifier module with trimmer for better adjustment of sound level.

Perspective view

**TECHNICAL SPECIFICATIONS**

Type	wall mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	130 \div 15000Hz
S.P.L. 1W@1m	92 \pm 3dB
Speaker type	5" full range
Speaker impedance	8 Ω
IP protection degree	52
Dimensions	\varnothing 137mm x 200mm
Fixing	U-Bracket
Material	ABS
Colour	white
Weight	1,8Kg

Connection



10W AMPLIFIED HORN SPEAKER

DT1812/A10

Cod. 3400-281103

20W AMPLIFIED HORN SPEAKER

DT1812/A20

Cod. 3400-281203



Small-size speaker for excellent playback quality of voice announcements in applications that require high-fidelity sound. Anti-shock ABS body with rectangular shell provided with adjustable U-bracket for easy wall-mount indoor and outdoor (IP64). Complete with amplifier module with trimmer for adjustment of sound level.

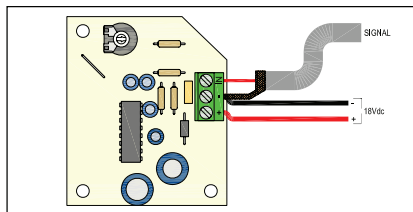
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall mount
Input impedance	10KΩ
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	400 ÷ 20000Hz
S.P.L. 1W@1m	106dB
Speaker type	magnetodynamic unit
Speaker impedance	20Ω
IP protection degree	64
Dimensions	180x116x232mm
Fixing	U-Bracket
Material	ABS
Colour	grey
Weight	2,0Kg

Connection



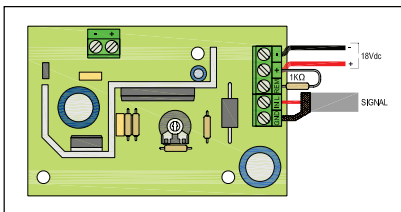
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall mount
Input impedance	10KΩ
Input sensitivity	400mV
RMS power	20W
Power supply	18Vdc
Absorption	600mA
Frequency response	400 ÷ 20000Hz
S.P.L. 1W@1m	106dB
Speaker type	magnetodynamic unit
Speaker impedance	20Ω
IP protection degree	64
Dimensions	180x116x232mm
Fixing	U-Bracket
Material	ABS
Colour	grey
Weight	2,0Kg

Connection



20W SPEAKER FOR OUTDOOR USE

DGS1/A20

Cod. 3400-291205

20W SPEAKER FOR OUTDOOR USE

DGS2/A20

Cod. 3400-292205

20W SPEAKER FOR OUTDOOR USE

DGS3/A20

Cod. 3400-293205

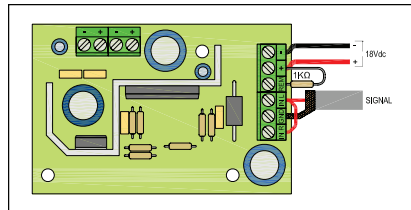


Speaker with excellent quality of voice announcements and background music in outdoor applications (gardens, avenues, etc.). Special resin body with stone-imitating shape designed for simple and quick ground fixing in outdoor applications (IP53). Complete with amplifier module at constant level.

TECHNICAL SPECIFICATIONS

Type	ground mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	20W
Power supply	18Vdc
Absorption	600mA
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	2 x water resistant bi-cone
Speaker impedance	2 x 4 Ω
IP protection degree	53
Dimensions	330x300x280mm
Material	polyester resin
Colour	ivory
Weight	12,0Kg

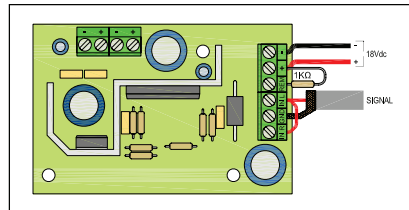
Connection



TECHNICAL SPECIFICATIONS

Type	ground mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	20W
Power supply	18Vdc
Absorption	600mA
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	2 x water resistant bi-cone
Speaker impedance	2 x 4 Ω
IP protection degree	53
Dimensions	280x270x250mm
Material	polyester resin
Colour	ivory
Weight	7,0Kg

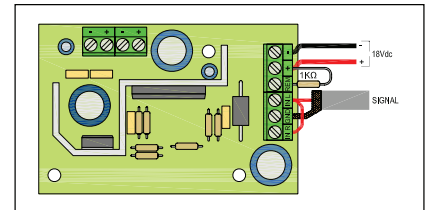
Connection



TECHNICAL SPECIFICATIONS

Type	ground mount
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	20W
Power supply	18Vdc
Absorption	600mA
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	2 x water resistant bi-cone
Speaker impedance	2 x 4 Ω
IP protection degree	53
Dimensions	400x200x250mm
Material	polyester resin
Colour	ivory
Weight	9,0Kg

Connection



VOLUME CONTROL FOR WALL-EMBEDDED BOX

RVC

Cod. 3300-311000

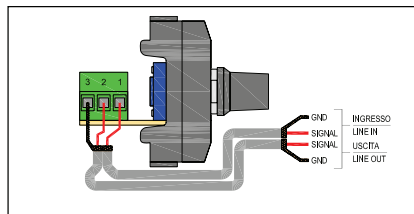


Needed to control sound level in a single zone, regardless of the other zones. Provided with triple terminal, it is installed between the signal distribution line and the speakers of a specific zone. It takes one place in civil series.

CODE	ITEM	CIVIL SERIES			AVAILABLE
3301-	RVC A1	AVE	Blanc	white	○
3301-	RVC A2		Noir AX	black	○
3301-	RVC A3		Banquise	white	○
3301-	RVC A4		Domus 100	white	○
3301-	RVC A5		RAL	white	○
3301-	RVC A6	TICINO	LIFE 44	black	○
3302-311001	RVC BT0		Magic	white	●
3302-311012	RVC BT1		Living	black	●
3302-311022	RVC BT2		Living Intern.	black	●
3302-311031	RVC BT3		Light	white	●
3302-311041	RVC BT4	LEGRAND	Luna	white	●
3302-311053	RVC BT5		Ligh-Tech	silver	●
3302-311061	RVC BT6		Matix	white	●
3302-311073	RVC BT7		Axolute	white	○
3302-	RVC BT8		Axolute	white	●
3303-	RVC G1	GEWISS	Playbus	white	○
3303-311022	RVC G2		Playbus	black	●
3303-	RVC G3		Chorus	white	○
3303-	RVC G4		Chorus	silver	○
3303-	RVC G5		Chorus	black	○
3303-311061	RVC G6	SIEMENS	System 9000	white	●
3303-	RVC G7		System 9000	black	○
3304-	RVC L1		Cross	white	○
3304-	RVC L2		Vela	black	○
3305-	RVC S1		Delta Futura	white	○
3306-	RVC V0	VIMAR	8000	white	○
3306-311011	RVC V1		Idea	white	●
3306-311022	RVC V2		Idea	black	●
3306-311031	RVC V3		Plana	white	●
3306-	RVC V4		Eikon	silver	○
3306-	RVC V5		Eikon	black	○
3306-	RVC V6		Eikon	white	○
3306-	RVC V7		Plana	grey	○

Available ●
Available on demand ○

Connection



VOLUME CONTROL WITH SWITCH FOR WALL-EMBEDDED BOX

RVIC

Cod. 3300-331000



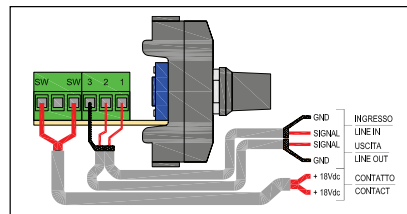
Same characteristics as art. SM8 with additional switch that opens when the volume control is rotated to zero.

The switch, which is provided with separate terminals, can be used to interrupt power supply to amplified speakers when the volume is set at zero. Only suitable for speakers powered with very low voltage (24-12V). It takes one place in civil series.

CODE	ITEM	CIVIL SERIES			AVAILABLE
3301-331011	RVIC A1	AVE	Blanc	white	●
3301-331022	RVIC A2		Noir AX	black	●
3301-	RVIC A3		Banquise	white	○
3301-	RVIC A4		Domus 100	white	○
3301-	RVIC A5		RAL	white	○
3301-	RVIC A6	TICINO	LIFE 44	black	○
3302-	RVIC BT0		Magic	white	○
3302-331012	RVIC BT1		Living	black	●
3302-331022	RVIC BT2		Living Intern.	black	●
3302-331031	RVIC BT3		Light	white	●
3302-331041	RVIC BT4	LEGRAND	Luna	white	●
3302-331053	RVIC BT5		Ligh-Tech	silver	●
3302-331061	RVIC BT6		Matix	white	●
3302-	RVIC BT7		Axolute	white	○
3302-331082	RVIC BT8		Axolute	white	●
3303-	RVIC G1	GEWISS	Playbus	white	○
3303-331022	RVIC G2		Playbus	black	●
3303-331031	RVIC G3		Chorus	white	○
3303-	RVIC G4		Chorus	silver	○
3303-331052	RVIC G5		Chorus	black	○
3303-331061	RVIC G6	SIEMENS	System 9000	white	●
3303-	RVIC G7		System 9000	black	○
3304-	RVIC L1		Cross	white	○
3304-	RVIC L2		Vela	black	○
3305-	RVIC S1		Delta Futura	white	○
3306-	RVIC V0	VIMAR	8000	white	○
3306-331011	RVIC V1		Idea	white	●
3306-331022	RVIC V2		Idea	black	●
3306-331031	RVIC V3		Plana	white	●
3306-	RVIC V4		Eikon	silver	○
3306-331052	RVIC V5		Eikon	black	○
3306-	RVIC V6		Eikon	white	○
3306-	RVIC V7		Plana	grey	○

Available ●
Available on demand ○

Connection



10W AMPLIFIER MODULE

CA10

Cod. 3400-011010



TECHNICAL SPECIFICATIONS

Input impedance	10K Ω
Input sensitivity	400mV
Output impedance	4 \div 8 Ω
Frequency response	50 \div 20000Hz
Power supply	18Vdc
Absorption	200mA

Needed to adapt all 4/8 Ohm speakers to distributed power installations made with Kalos system or A20/5 power supply unit. Complete with trimmer for better adjustment of sound level. Designed for installation in branching box or fixed on the speaker body.

10W AMPLIFIER MODULE WITH EMERGENCY RELAY

CA10E

Cod. 3400-012010



TECHNICAL SPECIFICATIONS

Input impedance	10K Ω
Input sensitivity	400mV
Output impedance	4 \div 8 Ω
Frequency response	50 \div 20000Hz
Power supply	18Vdc
Absorption	200mA

Needed to adapt all 4/8 Ohm speakers to distributed power installations made with Kalos system. Complete with trimmer for better adjustment of sound level. Provided with dedicated input for RVC volume control with additional input for 18 \div 24Vdc by-pass voltage of volume control. Designed for installation in branching box or fixed on the speaker body.

10W AMPLIFIER MODULE WITH MUSIC/VOICE RELAY

CA10MP

Cod. 3400-013010



TECHNICAL SPECIFICATIONS

Input impedance	10K Ω
Input sensitivity	400mV
Output impedance	4 \div 8 Ω
Frequency response	50 \div 20000Hz
Power supply	18Vdc
Absorption	200mA

Needed to adapt all 4/8 Ohm speakers to distributed power installations made with Kalos system or A20/5 power supply unit. Complete with trimmer for better adjustment of sound level. Provided with dedicated input for RVC or RVIC volume control. Also provided with dedicated audio input for room calls in management systems for health facilities in combination with input for 18 \div 24Vdc activation voltage. Designed for installation in branching box or fixed on the speaker body.

11W+11W STEREO AMPLIFIER MODULE

CAS11

Cod. 4200-011010



TECHNICAL SPECIFICATIONS

Input impedance	10K Ω
Input sensitivity	400mV
Output impedance	4 \div 8 Ω
Frequency response	50 \div 20000Hz
Power supply	18Vdc
Absorption	600mA

Needed to adapt two 4/8 Ohm speakers to one MH 10 stereo control unit used in installations made with Domus systems.

22W MONO AMPLIFIER MODULE

CAM22

Cod. 4200-022010



TECHNICAL SPECIFICATIONS

Input impedance	10K Ω
Input sensitivity	400mV
Output impedance	4 \div 8 Ω
Frequency response	50 \div 20000Hz
Power supply	18Vdc
Absorption	600mA

Needed to adapt one 4/8 Ohm speaker to one MH 10 stereo control unit used in installations made with Domus systems. Two separate modules are needed to drive two speakers. Designed for installation in junction box or fixed to speaker body.



DOMUS

MULTIPROGRAMME	Mono, stereo and mixed audio systes.....	98
DOMUS ACCESSORIEE	Amplifier modules.....	102
PASSIVE SPEAKERS	Ceiling mount, wall mount, external sound speakers.....	104



MULTIPROGRAMME CENTRAL UNIT WITH FM TUNER

CRM

Cod. 4100-101010



TECHNICAL SPECIFICATIONS

AUX input impedance	30K Ω
AUX input sensitivity	-18dB (100mV)
Tuner	FM 87,5-108Mhz
Line output impedance	600 Ω
Max. output level	+dBm - 1Vpp
Frequency response	20/18000Hz
Power supply	12Vdc-5Vdc
Current consumption	500mA
Dimensions	355x210mm
Colour	white
Weight	1,2Kg

The CRM Central Unit allows for creating sound diffusion installations for simultaneous distribution of 5 FM radio programmes and one auxiliary programme from CD, cassette, etc. In all rooms provided with control module, independently from one another, you can activate sound diffusion, change programme and adjust volume. Mono, stereo or mixed installations are possible. It is provided with five stereo FM PLL 87÷108MHz tuners controlled by microprocessor, monitor speaker for pre-listening with ON/OFF control and one input for connection of a BMCP/A microphone unit to make general call on the entire installation with priority on background music. Alternatively, a vocal synthesis announcement generator type GSV can be connected. All connections are made with screw terminal blocks.

Made of anti-shock ABS complete with membrane keypad and backlit alphanumeric display, designed for wall installation in AVE BL07 recessed box (not supplied) in vertical position.

10W AMPLIFIED SPEAKER

A15/5

Cod. 4100-115010



TECHNICAL SPECIFICATIONS

Input voltage	230Vac - 50÷60Hz
Output voltage	18Vdc 4A, 12Vdc 1A, 5Vdc 1A
Dimensions	256x160mm
Installation	recessed
Material	steel
Colour	white
Weight	2,8Kg

Used to power the CRM radio central unit and max. 15 mono control modules or 5 stereo control modules. For installations with higher number of modules you must add AS20/5 additional power supplies, each of them to power max. 20 mono control modules or 5 stereo control modules.

Made of painted metal and designed for wall-mount installation in recessed box type VIMAR 16895 (not supplied). White colour.

ADDITIONAL POWER SUPPLY

AS20/5

Cod. 3100-131010



To power up to 20 x 10W or 5 x 20W "PA-ATTIVO" and "AUDIO RSA" powered speakers. It enable to power the MZA and/or the MZ100 zone modules. In the multi-program application, the AS20/5 can power up to 20 "DOMUS" MCM mono or 5 MCS stereo modules: made of painted metal and designed for wall or desktop installation.

TECHNICAL SPECIFICATIONS

Power supply	220Vdc
Absorption	120VA
Distributed voltage	18Vdc/4A
Dimensions	230x60x210mm
Colour	black
Weight	3,4Kg

INTERFACE MODULE

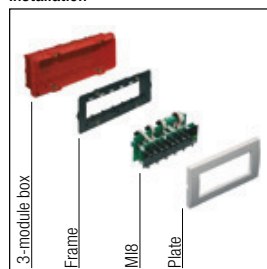
MI8

Cod. 4100-108000



Preamplifier for sound installations for simultaneous broadcast of music programmes (4 stereo or 6 mono) from CDs, cassettes, etc. In all rooms provided with control module, independently from one another, you can activate sound diffusion, change programme and adjust volume. Mono, stereo or mixed installations are possible. All connections are made on screw terminal blocks. The circuit is mounted on painted metal support for installation in 506L recessed box (completely used). Available in the civil series indicated below. Weight: 0.6 Kg.

Installation



CODE	ITEM	CIVIL SERIES			AVAIL.
4101-	MI8	A1	Blanc	white	○
4101-	MI8	A2	Noir AX	black	○
4101-	MI8	A3	Banquise	white	○
4101-108041	MI8	A4	Domus 100	white	●
4101-	MI8	A5	RAL	white	○
4101-	MI8	A6	LIFE 44	black	○
4102-	MI8	BT0	Magic	white	○
4102-108012	MI8	BT1	Living	black	●
4102-108022	MI8	BT2	Living Intern.	black	●
4102-108031	MI8	BT3	Light	white	●
4102-	MI8	BT4	Luna	white	○
4102-108053	MI8	BT5	Ligh-Tech	silver	●
4102-	MI8	BT6	Matix	white	○
4102-	MI8	BT7	Axolute	white	○
4102-	MI8	BT8	Axolute	white	○
4103-	MI8	G1	Playbus	white	○
4103-	MI8	G2	Playbus	black	○
4103-	MI8	G3	Chorus	white	○
4103-	MI8	G4	Chorus	silver	○
4103-	MI8	G5	Chorus	black	○
4103-	MI8	G6	System 9000	white	○
4103-	MI8	G7	System 9000	black	○
4104-	MI8	L1	Cross	white	○
4104-	MI8	L2	Veia	black	○
4105-	MI8	S1	Delta Futura	white	○
4105-	MI8	S2	Delta Futura	black	○
4106-	MI8	V0	8000	white	○
4106-	MI8	V1	Idea	white	○
4106-108022	MI8	V2	Idea	black	●
4106-108031	MI8	V3	Plana	white	●
4106-108043	MI8	V4	Eikon	silver	●
4106-108052	MI8	V5	Eikon	black	●
4106-108061	MI8	V6	Eikon	white	●
4106-	MI8	V7	Plana	grey	○

Available ●
Available on demand ○

INTERFACE MODULE

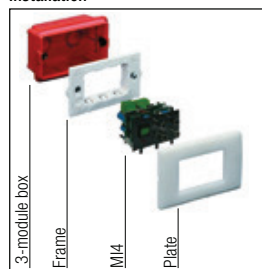
MI4

Cod. 4100-104000



Preamplifier for sound installations for simultaneous broadcast of music programmes (2 stereo or 4 mono) from CDs, cassettes, etc. In all rooms provided with control module, independently from one another, you can activate sound diffusion, change programme and adjust volume. Mono, stereo or mixed installations are possible. The module is also provided with one input for connection of one BMCP/A microphone unit for general call on the entire installation with priority on background music. Alternatively, you can connect an GSV-type vocal synthesis announcement generator. All connections are made with screw terminal blocks. The circuit is mounted on painted metal support for installation in 503 recessed box (completely used). Available in the civil series indicated below. Weight: 0.35 Kg.

Installation



CODE	ITEM	CIVIL SERIES			AVAIL.
4101-	MI4	A1	Blanc	white	○
4101-	MI4	A2	Noir AX	black	○
4101-	MI4	A3	Banquise	white	○
4101-	MI4	A4	Domus 100	white	●
4101-	MI4	A5	RAL	white	○
4101-	MI4	A6	LIFE 44	black	○
4102-	MI4	BT0	Magic	white	○
4102-104012	MI4	BT1	Living	black	●
4102-	MI4	BT2	Living Intern.	black	●
4102-	MI4	BT3	Light	white	●
4102-	MI4	BT4	Luna	white	○
4102-	MI4	BT5	Ligh-Tech	silver	○
4102-	MI4	BT6	Matix	white	○
4102-104073	MI4	BT7	Axolute	white	○
4102-	MI4	BT8	Axolute	white	○
4103-	MI4	G1	Playbus	white	○
4103-104022	MI4	G2	Playbus	black	○
4103-104031	MI4	G3	Chorus	white	○
4103-104043	MI4	G4	Chorus	silver	○
4103-104052	MI4	G5	Chorus	black	○
4103-	MI4	G6	System 9000	white	○
4103-	MI4	G7	System 9000	black	○
4104-	MI4	L1	Cross	white	○
4104-	MI4	L2	Veia	black	○
4105-	MI4	S1	Delta Futura	white	○
4105-	MI4	S2	Delta Futura	black	○
4106-	MI4	V0	8000	white	○
4106-104011	MI4	V1	Idea	white	○
4106-104022	MI4	V2	Idea	black	●
4106-104031	MI4	V3	Plana	white	○
4106-	MI4	V4	Eikon	silver	●
4106-104052	MI4	V5	Eikon	black	●
4106-	MI4	V6	Eikon	white	●
4106-	MI4	V7	Plana	grey	○

Available ●
Available on demand ○

MONO CONTROL MODULE

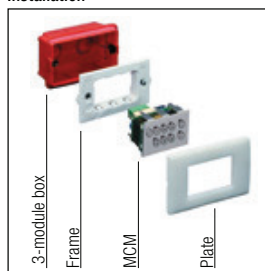
MCM

Cod. 4100-126000



Six-channel mono control unit to be associated with CRM central unit or MI8 modules to activate sound broadcast, change programme and adjust the volume in the space where it is installed. The module is provided with membrane keyboard for function selection and LEDs to visualize the selected channel. One control input is used to switch on and adjust the module automatically in case of call from microphone unit. The 10W power output allows for managing 4/8 Ohm passive speakers directly. All connections are made with screw terminal blocks. The circuit is mounted on suitable support for installation in 503 recessed box (completely used). Available in the civil series indicated below. Weight: 0.1 Kg.

Installation



CODE	ITEM	CIVIL SERIES			AVAIL.
4101-126011	MCM A1	AVE	Blanc	white	●
4101-126022	MCM A2		Noir AX	black	●
4101-	MCM A3		Banquise	white	○
4101-126041	MCM A4		Domus 100	white	●
4101-	MCM A5		RAL	white	○
4101-	MCM A6		LIFE 44	black	○
4102-	MCM BT0	TICINO	Magic	white	○
4102-126012	MCM BT1		Living	black	●
4102-126022	MCM BT2		Living Intern.	black	●
4102-126031	MCM BT3		Light	white	●
4102-126041	MCM BT4		Luna	white	●
4102-126053	MCM BT5		Ligh-Tech	silver	●
4102-126061	MCM BT6		Matix	white	●
4102-126073	MCM BT7		Axolute	white	●
4102-126082	MCM BT8	GEWISS	Axolute	white	●
4103-	MCM G1		Playbus	white	○
4103-126022	MCM G2		Playbus	black	●
4103-126031	MCM G3		Chorus	white	●
4103-126043	MCM G4		Chorus	silver	●
4103-126052	MCM G5		Chorus	black	●
4103-	MCM G6		System 9000	white	○
4103-	MCM G7		System 9000	black	○
4104-	MCM L1	LEGRAND	Cross	white	○
4104-	MCM L2		Vela	black	○
4105-	MCM S1	SIEMENS	Delta Futura	white	○
4105-	MCM S2		Delta Futura	black	○
4106-126001	MCM V0	VIMAR	8000	white	●
4106-126011	MCM V1		Idea	white	●
4106-126022	MCM V2		Idea	black	●
4106-126031	MCM V3		Plana	white	●
4106-126043	MCM V4		Eikon	silver	●
4106-126052	MCM V5		Eikon	black	●
4106-126061	MCM V6		Eikon	white	○
4106-	MCM V7		Plana	grey	○

Available ●
Available on demand ○

STEREO CONTROL MODULE

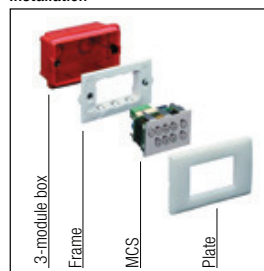
MCS

Cod. 4100-166000



Six-channel stereo control unit to be associated with CRM central unit or MI8 modules to activate sound broadcast, change programme and adjust the volume in the space where it is installed. The module is provided with thermoformed keyboard for function selection and LEDs to visualize the selected channel. One control input is used to switch on and adjust the module automatically in case of call from microphone unit. The preamplified output allows for combination with MH 11 stereo amplifier circuits to manage 4/8 Ohm passive speakers. All connections are made with screw terminal blocks. The circuit is mounted on suitable support for installation in 503 recessed box (completely used). Available in the civil series indicated below. Weight: 0.1 Kg.

Installation



CODE	ITEM		CIVIL SERIES			AVAIL.
4101-166011	MCS	A1	AVE	Blanc	white	●
4101-166022	MCS	A2		Noir AX	black	●
4101-	MCS	A3		Banquise	white	○
4101-	MCS	A4		Domus 100	white	○
4101-	MCS	A5		RAL	white	○
4101-	MCS	A6		LIFE 44	black	○
4102-	MCS	BT0	TICINO	Magic	white	○
4102-166012	MCS	BT1		Living	black	●
4102-166022	MCS	BT2		Living Intern.	black	●
4102-166031	MCS	BT3		Light	white	●
4102-166041	MCS	BT4		Luna	white	●
4102-166053	MCS	BT5		Ligh-Tech	silver	●
4102-166061	MCS	BT6		Matix	white	●
4102-166073	MCS	BT7		Axolute	white	●
4102-	MCS	BT8	GEWISS	Axolute	white	○
4103-	MCS	G1		Playbus	white	○
4103-166022	MCS	G2		Playbus	black	●
4103-166031	MCS	G3		Chorus	white	●
4103-166043	MCS	G4		Chorus	silver	●
4103-166052	MCS	G5		Chorus	black	●
4103-	MCS	G6	LEGRAND	System 9000	white	○
4103-	MCS	G7		System 9000	black	○
4104-	MCS	L1		Cross	white	○
4104-	MCS	L2		Vela	black	○
4105-	MCS	S1	SIEMENS	Delta Futura	white	○
4105-	MCS	S2		Delta Futura	black	○
4106-	MCS	V0	VIMAR	8000	white	○
4106-166011	MCS	V1		Idea	white	○
4106-166022	MCS	V2		Idea	black	●
4106-166031	MCS	V3		Plana	white	●
4106-166043	MCS	V4		Eikon	silver	●
4106-	MCS	V5		Eikon	black	○
4106-166061	MCS	V6		Eikon	white	○
4106-	MCS	V7		Plana	grey	○

Available ●
Available on demand ○

MONOPHONIC AMPLIFIED CONTROL UNIT KIT

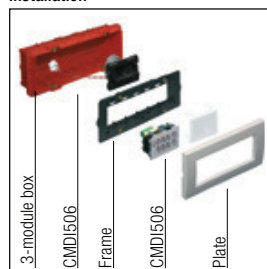
CMDI506

Cod. 4100-142000



Kit composed of six-channel mono unit and 8 Ohm passive speaker to be associated with CRM control unit or M18 modules to activate sound diffusion, change programme and adjust volume in the space where it is installed. The association of the MCM module with the DI503/P speaker allows for creating the smallest control/sound station currently available on the market. Suitable for installation in all settings where space is an issue. The module is provided with membrane keyboard for function selection and LED to visualize the selected channel. One control input is used to switch on and adjust the module automatically in case of call from microphone unit. The 10W power unit allows for managing the associated speaker directly. All connections are made in screw terminal blocks. The circuit and speaker are mounted on suitable support for installation in 506L recessed box (completely used). Available in the civil series indicated below.

Installation



CODE	ITEM	CIVIL SERIES			AVAIL.
4101-142011	CMDI506 A1	AVE	Blanc	white	●
4101-	CMDI506 A2		Noir AX	black	○
4101-	CMDI506 A3		Banquise	white	○
4101-	CMDI506 A4		Domus 100	white	○
4101-	CMDI506 A5		RAL	white	○
4101-	CMDI506 A6		LIFE 44	black	○
4102-	CMDI506 BT0	TICINO	Magic	white	○
4102-142012	CMDI506 BT1		Living	black	●
4102-142022	CMDI506 BT2		Living Intern.	black	●
4102-142031	CMDI506 BT3		Light	white	●
4102-	CMDI506 BT4		Luna	white	○
4102-	CMDI506 BT5		Ligh-Tech	silver	○
4102-	CMDI506 BT6		Matix	white	○
4102-	CMDI506 BT7		Axolute	white	○
4102-	CMDI506 BT8	GEWISS	Axolute	white	○
4103-	CMDI506 G1		Playbus	white	○
4103-142022	CMDI506 G2		Playbus	black	●
4103-	CMDI506 G3		Chorus	white	○
4103-	CMDI506 G4		Chorus	silver	○
4103-	CMDI506 G5		Chorus	black	○
4103-	CMDI506 G6	LEGRAND	System 9000	white	○
4103-	CMDI506 G7		System 9000	black	○
4104-	CMDI506 L1		Cross	white	○
4104-	CMDI506 L2		Vela	black	○
4105-	CMDI506 S1	SIEMENS	Delta Futura	white	○
4105-	CMDI506 S2		Delta Futura	black	○
4106-	CMDI506 V0		8000	white	○
4106-	CMDI506 V1		Idea	white	○
4106-142022	CMDI506 V2	VIMAR	Idea	black	●
4106-142031	CMDI506 V3		Plana	white	●
4106-	CMDI506 V4		Eikon	silver	○
4106-	CMDI506 V5		Eikon	black	○
4106-	CMDI506 V6		Eikon	white	○
4106-	CMDI506 V7		Plana	grey	○

Available ●
Available on demand ○

3W PASSIVE WALL MOUNT SPEAKER

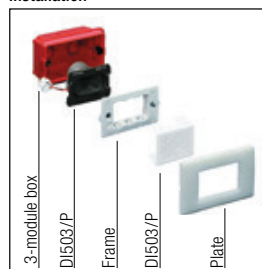
DI503/P

Cod. 4300-103000



To be associated with MH 4 module, mounted in 503 recessed box (completely used). Suitable for installation in hotel rooms and in areas where size is an issue. The speaker size delivers 3W power. Available in the civil series indicated below. Weight: 0,16 Kg

Installation



CODE	ITEM	CIVIL SERIES			AVAIL.
4301-103011	DI503/P A1	AVE	Blanc	white	●
4301-103022	DI503/P A2		Noir AX	black	●
4301-	DI503/P A3		Banquise	white	○
4301-	DI503/P A4		Domus 100	white	○
4301-	DI503/P A5		RAL	white	○
4301-	DI503/P A6		LIFE 44	black	○
4302-	DI503/P BT0	TICINO	Magic	white	○
4302-103012	DI503/P BT1		Living	black	●
4302-103022	DI503/P BT2		Living Intern.	black	●
4302-103031	DI503/P BT3		Light	white	●
4302-103041	DI503/P BT4		Luna	white	●
4302-103053	DI503/P BT5		Ligh-Tech	silver	●
4302-103061	DI503/P BT6	GEWISS	Matix	white	●
4302-103073	DI503/P BT7		Axolute	white	●
4302-103082	DI503/P BT8		Axolute	white	●
4303-	DI503/P G1		Playbus	white	○
4303-103022	DI503/P G2		Playbus	black	●
4303-103031	DI503/P G3		Chorus	white	●
4303-103043	DI503/P G4	LEGRAND	Chorus	silver	●
4303-103052	DI503/P G5		Chorus	black	●
4303-	DI503/P G6		System 9000	white	○
4303-	DI503/P G7		System 9000	black	○
4304-	DI503/P L1		Cross	white	○
4304-	DI503/P L2	SIEMENS	Vela	black	○
4305-	DI503/P S1		Delta Futura	white	○
4305-	DI503/P S2		Delta Futura	black	○
4306-	DI503/P V0		8000	white	○
4306-103011	DI503/P V1		Idea	white	●
4306-103022	DI503/P V2	VIMAR	Idea	black	●
4306-103031	DI503/P V3		Plana	white	●
4306-103043	DI503/P V4		Eikon	silver	●
4306-103052	DI503/P V5		Eikon	black	●
4306-	DI503/P V6		Eikon	white	○
4306-	DI503/P V7		Plana	grey	○

Available ●
Available on demand ○

11W+11W STEREO AMPLIFIER MODULE

CAS11

Cod. 4200-011010



Needed to adapt two 4/8 Ohm speakers to one MH 10 stereo control unit used in installations made with Domus systems. Designed for installation in junction box.

TECHNICAL SPECIFICATIONS

Input impedance	10K Ω
Input sensitivity	400mV
Output impedance	4 \div 8 Ω
Frequency response	50 \div 20000Hz
Power supply	18Vdc
Absorption	600mA

22W MONO AMPLIFIER MODULE

CAM22

Cod. 4200-022010

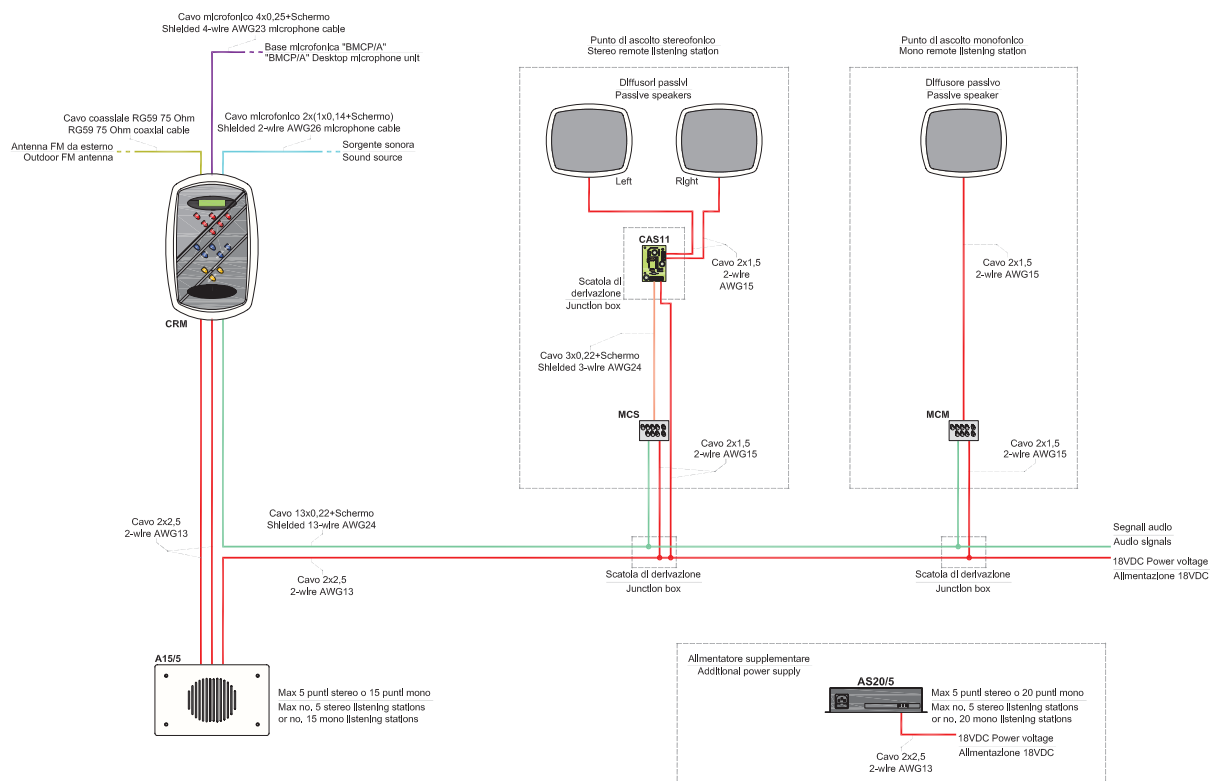


Needed to adapt one 4/8 Ohm speaker to one MH 10 stereo control unit used in installations made with Domus systems. Two separate modules are needed to drive two speakers. Designed for installation in junction box or fixed to speaker body.

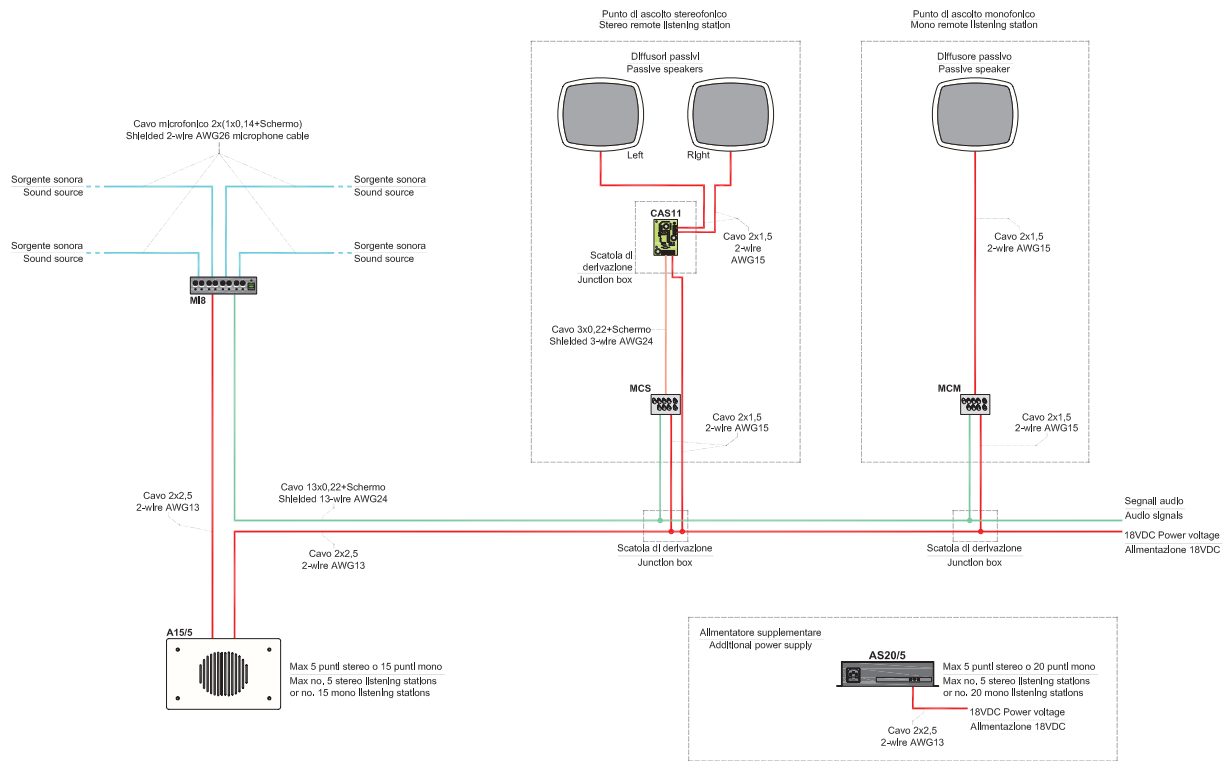
TECHNICAL SPECIFICATIONS

Input impedance	10K Ω
Input sensitivity	400mV
Output impedance	4 \div 8 Ω
Frequency response	50 \div 20000Hz
Power supply	18Vdc
Absorption	600mA

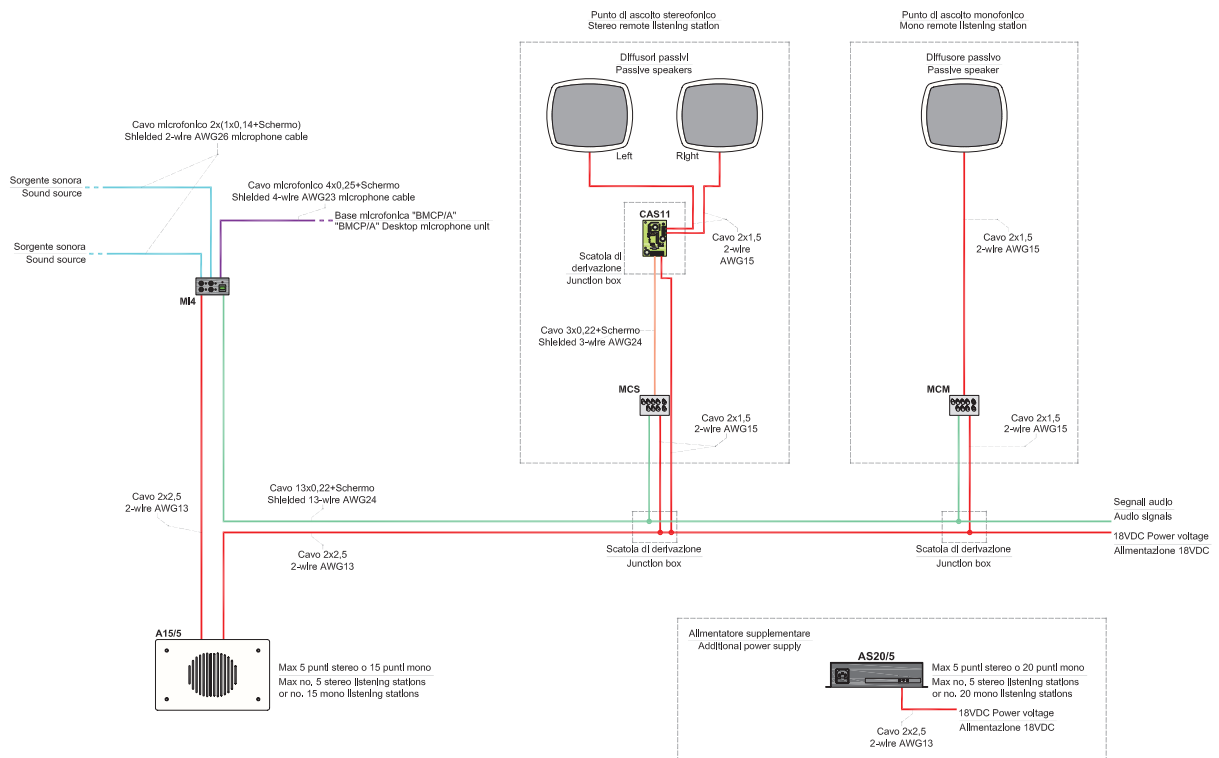
CRM DIAGRAM



MI8 DIAGRAM



MI4 DIAGRAM



20W WALL-MOUNT PASSIVE SPEAKER

DC20/P

Cod. 4300-120201



Wall-mount speaker for excellent playback quality of voice announcements and background music. Body and grille made of painted metal, provided with spring clips for easy installation in false ceiling.

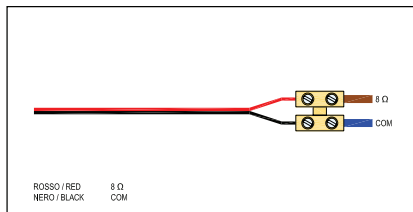
Perspective view



TECHNICAL SPECIFICATIONS

Type	ceiling mount
Max. power	20W
Frequency response	110 ÷ 15000Hz
S.P.L. 1W@1m	90 ±3dB
Speaker type	5" full range
Speaker impedance	8Ω
Dimensions	ø200mm x 50mm
Dimensions of recessed hole	ø170mm
Material	steel
Colour	white
Weight	0,7Kg

Connection



20W WALL-MOUNT PASSIVE SPEAKER

DC23/P

Cod. 4300-123201



Wall-mount speaker for excellent playback quality of voice announcements and background music. Body and grille made of painted metal, provided with spring clips and bridge bracket for easy installation in false ceiling.

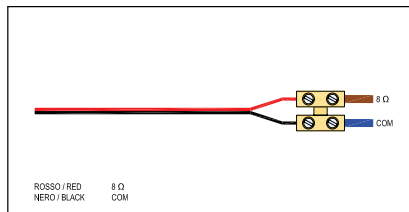
Perspective view



TECHNICAL SPECIFICATIONS

Type	ceiling mount
Max. power	20W
Frequency response	90 ÷ 18000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	6" full range
Speaker impedance	8Ω
Dimensions	ø230mm x 106mm
Dimensions of recessed hole	ø200mm
Material	steel
Colour	white
Weight	1,2Kg

Connection



20W WALL-MOUNT PASSIVE SPEAKER

DC27/P

Cod. 4300-127201



Surface-Mount high-efficiency speaker for excellent quality of voice announcements and background music in applications that require high-fidelity sound. Body and grille made of painted metal, provided with spring clips for easy installation in false ceiling.

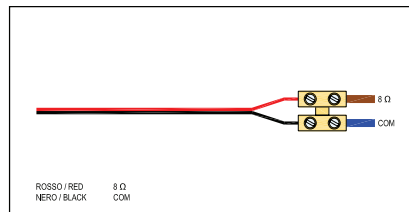
Perspective view



TECHNICAL SPECIFICATIONS

Type	ceiling mount
Max. power	20W
Frequency response	90 ÷ 18000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	8" full range
Speaker impedance	8Ω
Dimensions	ø266mm x 65mm
Dimensions of recessed hole	ø230mm
Material	steel
Colour	white
Weight	1,2Kg

Connection



20W WALL-MOUNT PASSIVE SPEAKER

DCP2017/P B
DCP2017/P N
DCP2017/P G

Cod. 4300-241201
Cod. 4300-241202
Cod. 4300-241203

20W 2-WAY WALL-MOUNT PASSIVE SPEAKERS

DCP2017/2P B
DCP2017/2P N
DCP2017/2P G

Cod. 4300-242201
Cod. 4300-242202
Cod. 4300-242203



Elegant speaker for excellent playback quality of voice announcements and background music. Self-extinguishing ABS with painted metal grille, provided with rotary hooks for easy installation in false ceilings. Alternatively, it can be installed on wall with GEWISS PT5-type recessed box (not supplied).

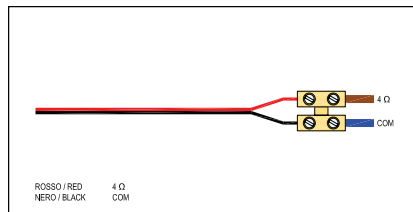
Elegant speaker for excellent playback quality of voice announcements and background music in applications that require high-fidelity sound. Self-extinguishing ABS body with painted metal grille, provided with rotary hooks for easy installation in false ceilings. Alternatively, it can be installed on wall with GEWISS PT5-type recessed box (not supplied).

Perspective view

**TECHNICAL SPECIFICATIONS**

Type	wall/ceiling mount
Max. power	20W
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" Bi-cone
Speaker impedance	4Ω
Dimensions	195x166x55mm
Dimensions of recessed hole	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

Connection

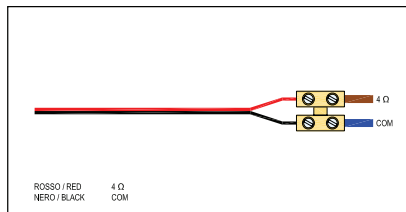


Perspective view

**TECHNICAL SPECIFICATIONS**

Type	wall/ceiling mount
Max. power	20W
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" 2 way
Speaker impedance	4Ω
Dimensions	195x166x55mm
Dimensions of recessed hole	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

Connection



20W WALL-MOUNT PASSIVE SPEAKER

DIP2517/P B Cod. 4300-206201
DIP2517/P N Cod. 4300-206202

20W WALL-MOUNT PASSIVE SPEAKER

DIP2517/2P B Cod. 4300-202201
DIP2517/2P N Cod. 4300-202202

20W WALL-MOUNT PASSIVE SPEAKER

DIP1713/P B Cod. 4300-203201
DIP1713/P N Cod. 4300-203202



Rectangular speaker for excellent playback quality of voice announcements and background music. Wooden body with ABS sides and painted metal grille, suitable for wall installation with VIMAR 16895-type recessed box (not supplied).

Rectangular speaker for excellent playback quality of voice announcements and background music. Wooden body with ABS sides and painted metal grille, suitable for wall installation with VIMAR 16895-type recessed box (not supplied).

Rectangular speaker for excellent playback quality of voice announcements and background music. Wooden body with ABS sides and painted metal grille, suitable for wall installation with GEWISS 4800-type or 506E generic recessed box (not supplied).

Perspective view



TECHNICAL SPECIFICATIONS

Type	wall embedded
Max. power	20W
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" Bi-cone
Speaker impedance	4Ω
Dimensions	254x168x45mm
Dimensions of recessed hole	170x100mm
Material	wood/steel/ABS
Colour	white, black
Weight	1,2Kg

Perspective view



TECHNICAL SPECIFICATIONS

Type	wall embedded
Max. power	20W
Frequency response	100 ÷ 20000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" Bi-cone
Speaker impedance	4Ω
Dimensions	254x168x45mm
Dimensions of recessed hole	170x100mm
Material	wood/steel/ABS
Colour	white, black
Weight	1,2Kg

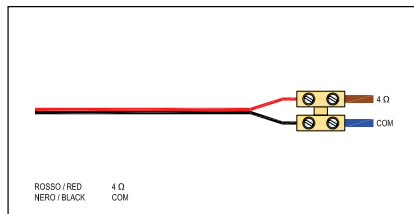
Perspective view



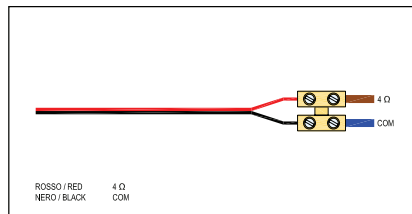
TECHNICAL SPECIFICATIONS

Type	wall embedded
Max. power	20W
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	91 ±3dB
Speaker type	4" Bi-cone
Speaker impedance	4Ω
Dimensions	165x130x45mm
Dimensions of recessed hole	125x120mm
Material	wood/steel/ABS
Colour	white, black
Weight	1,0Kg

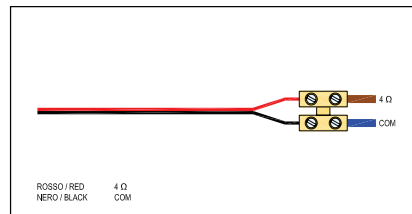
Connection



Connection



Connection



WALL-FITTED PASSIVE SPEAKERS

DP2512/P B

Cod. 4300-251201

DP2512/P N

Cod. 4300-251202

DP2512/P G

Cod. 4300-251203



Wall-fitted speaker for excellent playback quality of voice announcements and background music. Polycarbonate self-extinguishing body in class V2.

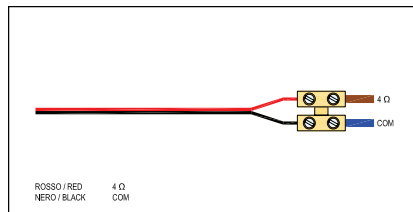
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall mount
Max. power	20W
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" Bi-cone
Speaker impedance	4Ω
Dimensions	250x120x73mm
Sporgenza massima	73mm
Material	Self-extinguishing ABS in class VII
Colour	white, black, grey
Weight	1Kg

Connection



10W SOUND PROJECTOR

PS/P

Cod. 4300-271201



Unidirectional speaker for excellent quality of voice announcements in applications that require high efficiency in maximum emission direction. It reduces reverb due to reflection of back and lateral walls, floor and ceiling. Self-extinguishing ABS body and grille with adjustable U-bracket for easy wall installation.

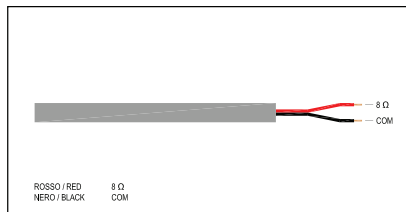
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall mount
Max. power	20W
Frequency response	130 ÷ 15000Hz
S.P.L. 1W@1m	92 ±3dB
Speaker type	5" full range
Speaker impedance	8Ω
Grado di protezione	52
Dimensions	ø137mm x 200mm
Fissaggio	U-Bracket
Material	Anti-shock ABS
Colour	white
Weight	1,8Kg

Connection



20W HORN SPEAKER

DT3417/P

Cod. 4300-282203

20W HORN SPEAKER

DT1812/P

Cod. 4300-281103



Small-size speaker for excellent playback quality of voice announcements in applications that require high-fidelity sound. Anti-shock ABS body with rectangular shell provided with adjustable U-bracket for easy wall installation indoors and outdoors (IP64).

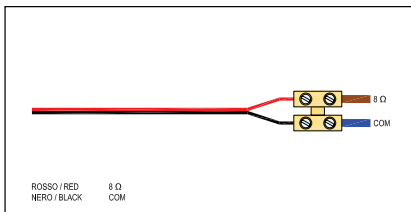
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall mount
Max. power	20W
Frequency response	300 ÷ 15000Hz
S.P.L. 1W@1m	104dB
Speaker type	magnetodynamic unit
Speaker impedance	8Ω
IP protection degree	64
Dimensions	340x165x400mm
Fixing	U-bracket
Material	anti-shock ABS
Colour	grey
Weight	2,6Kg

Connection



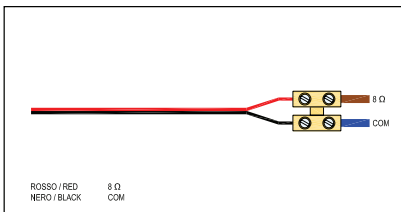
Perspective view



TECHNICAL SPECIFICATIONS

Type	wall mount
Max. power	20W
Frequency response	400 ÷ 20000Hz
S.P.L. 1W@1m	106dB
Speaker type	magnetodynamic unit
Speaker impedance	20Ω
IP protection degree	64
Dimensions	180x116x232mm
Fissaggio	U-Bracket
Material	anti-shock ABS
Colour	grey
Weight	2,0Kg

Connection



PASSIVE “SPEAKING STONES” 40W

DGS1/P Cod. 4300-291405

PASSIVE “SPEAKING STONES” 40W

DGS2/P Cod. 4300-292405

PASSIVE “SPEAKING STONES” 40W

DGS3/P Cod. 4300-293405

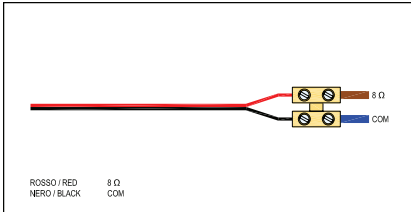


Speaker with excellent quality of voice announcements and background music in outdoor applications (gardens, avenues, etc.). Polyester resin body with stone-imitating shape designed for simple and quick ground fixing in outdoor applications (IP53).

TECHNICAL SPECIFICATIONS

Type	ground mount
Max. power	40W
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	2 x water resistance Bi-cone
Speaker impedance	2 x 4Ω
IP protection degree	53
Dimensions	330x300x280mm
Material	polyester resin
Colour	ivory
Weight	12,0Kg

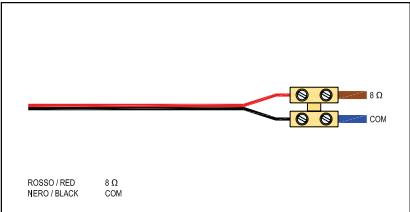
Connection



TECHNICAL SPECIFICATIONS

Type	ground mount
Max. power	40W
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	2 x water resistance Bi-cone
Speaker impedance	2 x 4Ω
IP protection degree	53
Dimensions	280x270x250mm
Material	polyester resin
Colour	ivory
Weight	7,0Kg

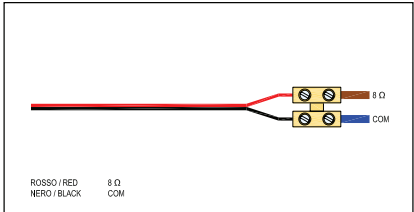
Connection



TECHNICAL SPECIFICATIONS

Type	ground mount
Max. power	40W
Frequency response	90 ÷ 20000Hz
S.P.L. 1W@1m	94dB
Speaker type	2 x water resistance Bi-cone
Speaker impedance	2 x 4Ω
IP protection degree	53
Dimensions	400x200x250mm
Material	polyester resin
Colour	ivory
Weight	9,0Kg

Connection







PODIUM

300 SERIES

Conference systems..... 112

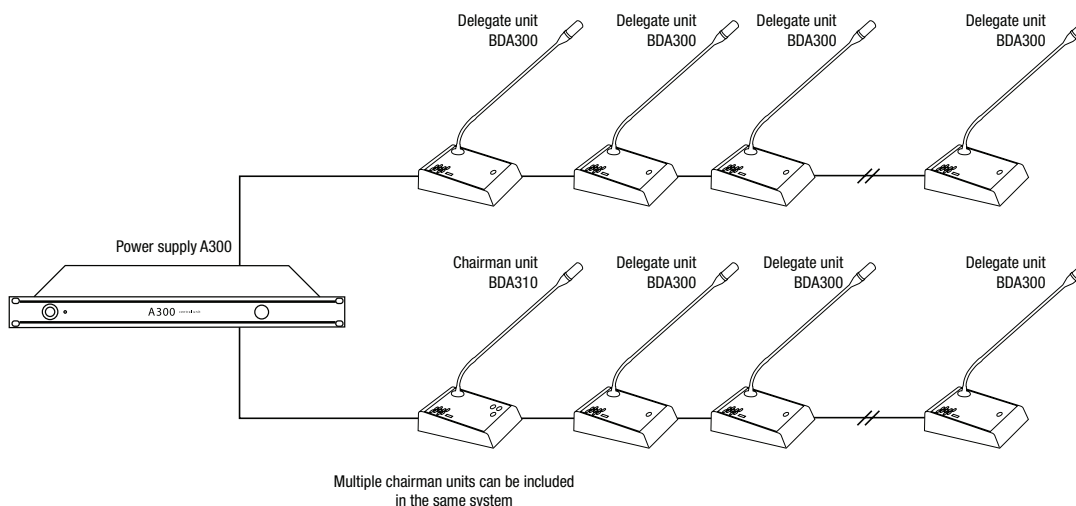
400 AND 500 SERIES

Conference and voting systems 114



SERIES 300 CONFERENCE SYSTEM

Connection of up to 30 microphone units



Features

Conference system with desktop or built-in bases. Management of conference in free mode whereby each delegate has freedom of speech, the president has priority over the delegates and the right to silence them. Up to 30 president/delegates bases for each A300 power unit. Possibility of connecting two power supply units in cascade format to build systems up to 50 bases. By-pass base connection via CAT5 cable. Option to connect more president bases in the same system and at any point of any line. The laying of microphone lines requires a subdivision of up to 10 bases per line with sections of length up to 40m from the central unit to the last base. Each microphone line which exceeds 40m, or which has more than 10 bases, requires an additional UL345 line amplifier.

SERIES 300 POWER SUPPLY

A300

Cod. 5100-310010



Power supply unit for Series 300 conference system used to manage 26 units. Provided with adjustment of input and output levels of audio signal, one aux input and one output for audio installation. Cat. 5 connections. Multiple units can be connected in cascade to increase the number of microphone units in the same system.

TECHNICAL SPECIFICATIONS

AUX input sensitivity	600mV
AUX input impedance	10KΩ
Input connection	female xlr
Output level	1,5V
Output impedance	10KΩ
Output connection	male xlr
Microphone connection	2 x RJ45
LINK connection	2 x RJ45
Power supply	230Vac - 50÷60Hz
Power consumption	50VA
Dimensions (L x H x D)	483x44x173mm
Color	black/grey
Weight	2,2Kg

SIGNAL AMPLIFIER

UL345

Cod. 5200-450710



Accessory used to extend lines between A300 power supply (or with 41/99) and first microphone unit beyond 15 m or double the number of units in the same microphone line (from 10-11 to 20).

TECHNICAL SPECIFICATIONS

Connection	2 x RJ45
Power supply	24Vdc
Dimensions (WxHxD)	125x70x40mm

SERIES 300 DESKTOP MICROPHONE UNITS

BPA310

Cod. 5100-321010

BDA300

Cod. 5100-325010



TECHNICAL SPECIFICATIONS

Microphone	gooseneck - electret
Frequency response	100 ÷ 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	460mm
Output level	700mV
Output impedance	2,2KΩ
Speaker power	1W
Power supply	17÷20Vdc
Absorption	120mA
Cable length	2m
Connection	2 x RJ45 plug
Material	ABS
Dimensions	204x155x55mm
Colour	black
Weight	1,2Kg

Chairman microphone unit in desktop version with C2/470 cable, 46cm microphone with light ring to indicate switch-on, speaker, ON/OFF button, PRIORITY command over other microphones and FINISH button.

Delegate microphone unit in desktop version with C2/470 cable, 46cm microphone with luminous ring to indicate switch-on, speaker, ON/OFF button, and light indicator for FINISH message.

SERIES 300 FLUSH MOUNT MICROPHONE UNITS

BPI315

Cod. 5100-331010

BDI305

Cod. 5100-335010



TECHNICAL SPECIFICATIONS

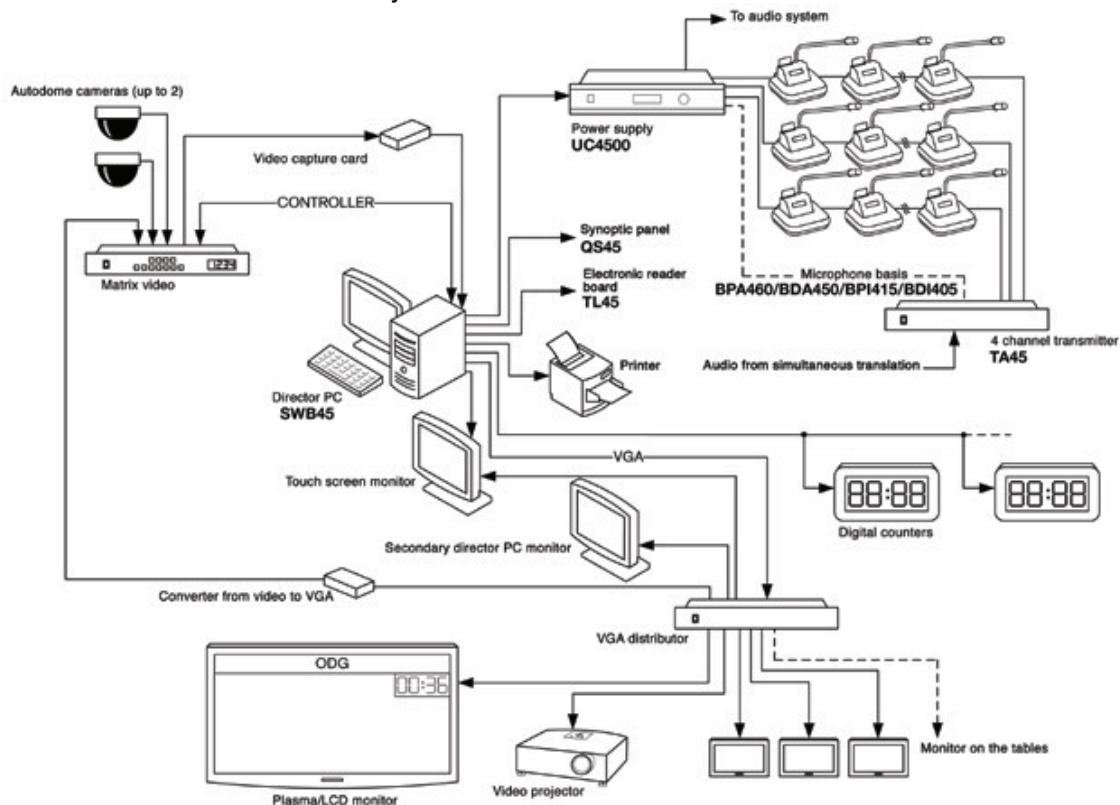
Microphone	gooseneck - electret
Frequency response	100 ÷ 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	460mm
Output level	700mV
Output impedance	2,2KΩ
Speaker power	1W
Power supply	17÷20Vdc
Absorption	120mA
Cable length	2m
Connection	2 x RJ45 plug
Material	ABS
Dimensions	238x128x50mm
Colour	black
Weight	1,2Kg

Delegate microphone unit in flush mount version with C2/470 cable, 46cm microphone with light ring to indicate switch-on, speaker, ON/OFF button, PRIORITY command over other microphones and FINISH button.

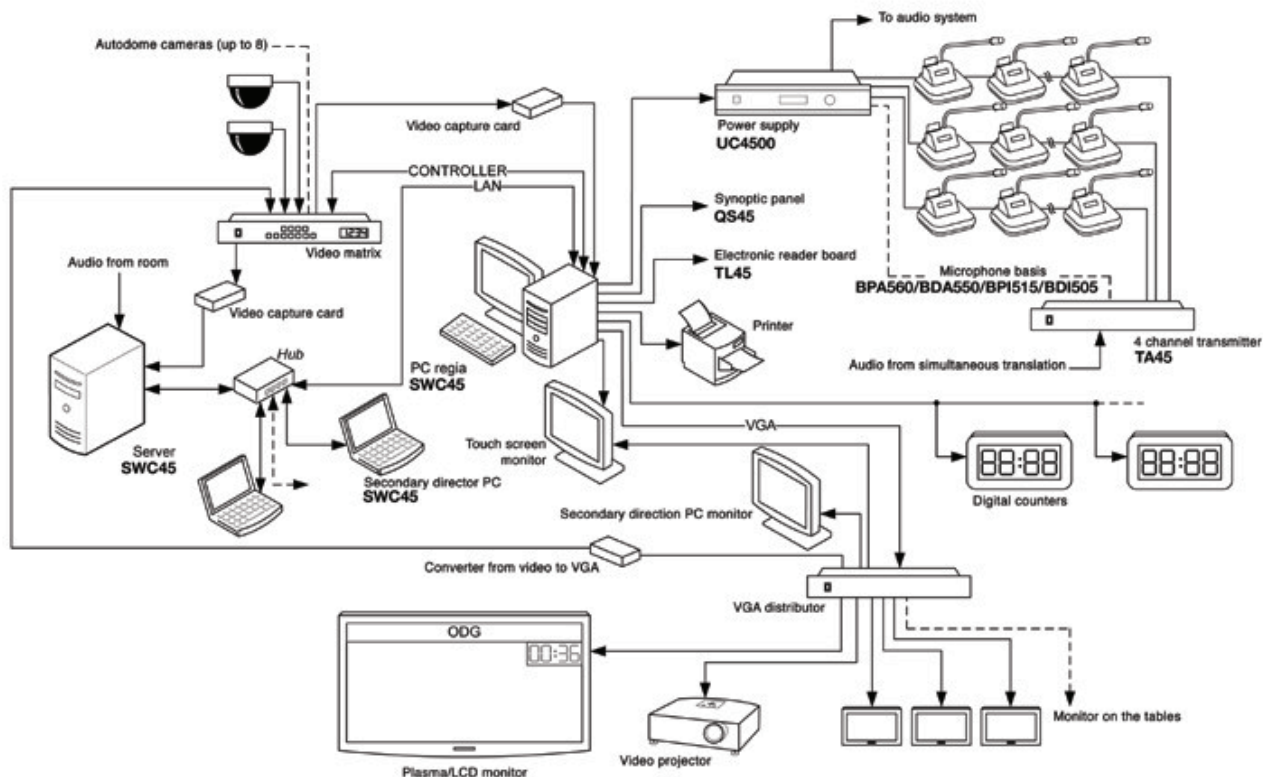
Delegate microphone unit in flush mount version with C2/470 cable, 46cm microphone with light ring to indicate switch-on, speaker, ON/OFF button, and light indicator for FINISH message.

SERIES 400 AND SERIES 500 CONFERENCE SYSTEM

Configuration of series 400 and 500 conference system with basic software SWB45



Configuration of series 400 and 500 conference system with full software SWC45



Features

Conference system with bases in the following versions: bench, partially built-in and built-in. Management of the conference in free mode, with manual or automatic reservation. Integration of translation in four languages with headset listening-in. Open or secret voting: Yes/No/Abstain. Display of voting results on TL45 mimic panel or custom QS45 synoptic board. Enabling of bases by CGC45 console or through a dedicated PC/Server system with appropriate SWB45 or SWC45 software packages permitting digital audio recording (SWB45) or audio-video recording (SWC45) divided by speech, database storage of all conference data, management of cameras for video filming with automatic tracking of the speaker. Up to 99 president/delegate bases for each UC4500 power unit. By-pass base connection on CAT5 cable. Option to connect more president bases in the same system and at any point of any line. The laying of microphone lines requires a subdivision of up to ten bases per line with sections of length up to 40m, from the exchange to the last base. Each microphone line which exceeds 40m, or which has more than ten bases, requires the addition of a UL345 line amplifier.

BASIC SOFTWARE PACKAGE FOR SERIES 400 AND 500

SWB45

Cod. 5200-450510

Software package for the complete management of 400 & 500 series conference systems allowing the operator to: enable a speaker in free mode or with manual or automatic reservation; set response times; enable open and secret voting; upload agendas; manage up to eight independent cameras with automatic tracking of the speaker; perform audio-video indexed recordings; and customise an image of the room as a mimic panel. The integrated database allows the operator to: store personal data for each user; manage the list of those eligible to vote; assign a name to stations; prepare agendas and voting securities; view all movements recorded during the session (entries, exits, speaker contributions etc.); print all votes and/or save them on the PC; and create a log of all sessions. Further, if 500 series bases are used, an electronic badge may be saved for each user allowing the user in question to access any station: the system will assign information to the user's station relative to the card inserted. The software package has been pre-installed on a Personal Computer with the required specifications with a double LCD monitor, mouse, keyboard and b/w laser printer, linked to a server with the required specifications for the saving of all files created, including audio/video recordings, to permit sharing with other users. The second monitor displays images captured by cameras, agenda with scrollable text and duration of speaker contribution. During voting, the mimic panel displays the outcome in real time and the final results screen. If the necessary equipment is present, the signal related to the second monitor may be projected to conference rooms. The software can be installed and used concurrently on three other PCs connected to the system in slave mode.

COMPLETE SOFTWARE FOR SERIES 400 AND 500

SWC45

Cod. 5200-450520

Software package for the complete management of 400 & 500 series conference systems allowing the operator to: enable a speaker in free mode or with manual or automatic reservation; set response times; enable open and secret voting; upload agendas; manage up to two independent cameras with automatic tracking of the speaker; perform audio indexed recordings; customise an image of the room as a mimic panel. The integrated database allows the operator to: store personal data for each user; manage the list of those eligible to vote; assign a name to stations; prepare agendas and voting securities; view all movements recorded during the session (entries, exits, speaker contributions etc.); print all votes and/or save them on the PC; and create a log of all sessions. Further, if 500 series bases are used, an electronic badge may be saved for each user allowing the user in question to access any station: the system will assign information to the user's station relative to the card inserted. The software package has been pre-installed on a Personal Computer with the required specifications with a double LCD monitor, mouse, keyboard and b/w laser printer. The second monitor displays images captured by cameras, agenda with scrollable text and the duration of speaker contribution. During voting, the mimic panel displays the outcome in real time and the final results screen. If the necessary equipment is present, the signal related to the second monitor may be projected to conference rooms.

POWER UNIT FOR 400 AND 500 SERIES

UC4500

Cod. 5200-450610



TECHNICAL SPECIFICATIONS

AUX input sensibility	200mV
AUX input impedance	10KΩ
Input connection	female xlr
Output level	1,5V
Output impedance	600Ω
Output connection	male xlr
REC output sensibility	500mV
REC output impedance	1KΩ
REC output connection	2 x rca
Microphone connection	12 x RJ45
Remote control	RS232
Power supply from AC mains	230Vac - 50÷60Hz
Absorption	500VA
Dimensions (WxHxD)	483x88x285mm
Colour	black/grey
Weight	3,6Kg

Power unit for 400 and 500 series conference systems, able to manage up to 99 stations subdivided into 12 lines each with a maximum of ten bases. Equipped with: an auxiliary input for connecting microphone appliances or external sound sources; a line output for connection to a sound system; a REC output for direct recording of the conference; adjustment of tones; adjustment of audio signal input and output levels; audio compressor; USB port for conference recording in digital format; RS232 serial port for interfacing with the PC/server with the appropriate SWB45 or SWC45 software packages; frontal buttons and backlit display for the management of all operating parameters; and EEPROM memory for saving all settings. The UC4500 power unit is also equipped with a self-diagnostic system available during installation or the start of a conference. This feature allows the installer, or the operator managing the system, to verify the correct operation of the system. Connections for microphone lines are on RJ45 plug sockets. Set up for rack mounting. Dimensions: 2 UNITS.

SERIES 400 MICROPHONE UNITS

BPA460

Cod. 5200-421010

BDA450

Cod. 5200-425010



TECHNICAL SPECIFICATIONS

Microphone	gooseneck - electret
Frequency response	100 ÷ 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	460mm
Output level	700mV
Output impedance	2,2KΩ
Speaker power	1W
Display	16 characters / 2 lines
Power supply	17÷20Vdc
Absorption	120mA
Cable lenght	2m
Connection	2 x RJ45 plug
Material	ABS
Dimensions	202x163x117mm
Colour	black
Weight	0,7Kg

Chairman microphone unit in desktop version with digital control, C2/470 cable, voting, simultaneous translation in 4 languages with channel selector and headphones volume, 2 mini jacks for headphones, name holder, built-it speaker, backlit LCD to display operations, voting results, and unit status, PRIORITY button to mute switched-on units and button to send FINISH message to switched-on units.

Delegate microphone unit in desktop version with digital control, C2/470 cable, voting, simultaneous translation in 4 languages with channel selector and headphones volume, 2 mini jacks for headphones, name holder, built-it speaker, backlit LCD to display operations, voting results, and unit status, if booked, and FINISH message.

SERIES 400 FLUSH MOUNT MICROPHONE UNITS

BPI415

Cod. 5200-431010

BDI405

Cod. 5200-435010



TECHNICAL SPECIFICATIONS

Microphone	gooseneck - electret
Frequency response	100 ÷ 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	460mm
Output level	700mV
Output impedance	2,2KΩ
Speaker power	1W
Display	16 characters / 2 lines
Power supply	17÷20Vdc
Absorption	120mA
Cable length	2m
Connection	2 x RJ45 plug
Material	ABS
Dimensions	230x128x65mm
Colour	black
Weight	1,2Kg

Chairman microphone unit in flush mount version with digital control, C2/470 cable, voting, simultaneous translation in 4 languages with channel selector and headphones volume, 2 mini jacks for headphones, name holder, built-it speaker, backlit LCD to display operations, voting results, unit status, PRIORITY button to mute switched-on units and button to send FINISH message to switched-on units.

Delegate microphone unit in flush mount version with digital control, C2/470 cable, voting, simultaneous translation in 4 languages with channel selector and headphones volume, 2 mini jacks for headphones, name holder, built-it speaker, backlit LCD to display operations, voting results, and unit status, if booked, and FINISH message.

SERIES 500 MICROPHONE UNITS

BPA560

Cod. 5200-521010

BDA550

Cod. 5200-525010



TECHNICAL SPECIFICATIONS

Microphone	gooseneck - electret
Frequency response	100 ÷ 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	460mm
Output level	700mV
Output impedance	2,2KΩ
Speaker power	1W
Display	16 characters / 2 lines
Power supply	17÷20Vdc
Absorption	120mA
Cable length	2m
Connection	2 x RJ45 plug
Material	ABS
Dimensions	202x163x117mm
Colour	black
Weight	0,7Kg

Chairman microphone unit in desktop version with digital control, C2/470 cable, voting, simultaneous translation in 4 languages with channel selector and headphones volume, 2 mini jacks for headphones, name port, built-it speaker, backlit LCD to display operations, voting results, and unit status, PRIORITY button to mute switched-on units and button to send FINISH message to switched-on units. The nominal transponder card allows the chairman, or his delegates, to use the Chairman unit. The software will display the name and data of the Chairman or of the person acting as chairman.

Delegate microphone unit in desktop version with digital control, C2/470 cable, voting, simultaneous translation in 4 languages with channel selector and headphones volume, 2 mini jacks for headphones, name port, built-it speaker, backlit LCD to display operations, voting results, and unit status, if booked, and FINISH message. The nominal transponder card allows the delegate to use any free microphone unit in the room. The software will display his position and presence.

SERIES 500 FLUSH MOUNT MICROPHONE UNITS

BPI515

Cod. 5200-531010

BDI505

Cod. 5200-535010



TECHNICAL SPECIFICATIONS

Microphone	gooseneck - electret
Frequency response	100 ÷ 15000Hz
Pick-up pattern	cardioid
Sensitivity	-54dB
Impedance	500Ω
Microphone length	460mm
Output level	700mV
Output impedance	2,2KΩ
Speaker power	1W
Display	16 characters / 2 lines
Power supply	17÷20Vdc
Absorption	120mA
Cable length	2m
Connection	2 x RJ45 plug
Material	ABS
Dimensions	230x128x65mm
Colour	black
Weight	1,2Kg

Chairman microphone unit in flush mount version with digital control, C2/470 cable, voting, simultaneous translation in 4 languages with channel selector and headphones volume, 2 mini jacks for headphones, name holder, built-it speaker, backlit LCD to display operations, voting results, and unit status, PRIORITY button to mute switched-on units and button to send FINISH message to switched-on unit. The nominal transponder card allows the chairman or his delegates to use the Chairman unit. The software will display the name and data of the Chairman or of the person acting as chairman.

Delegate microphone unit in flush mount version with digital control, C2/470 cable, voting, simultaneous translation in 4 languages with channel selector and headphones volume, 2 mini jacks for headphones, name holder, built-it speaker, backlit LCD to display operations, voting results, and unit status, if booked, and FINISH message. The nominal transponder card allows the delegate to use any free microphone unit in the room. The software will display his position and presence.

SERIES 400/500 CONTROL CONSOLE

CGC45

Cod. 5200-450650



TECHNICAL SPECIFICATIONS

Power supply	8 ÷ 12Vdc
Dimensions (WxHxD)	204x155x55mm
Colour	black
Weight	1,2Kg

The console support, which is connected to the UC4500 power supply unit, manages up to 99 bases by setting and enabling the main functions of the conferencing system equipped with electronic voting. The four modes of operation are:

1. Free conference whereby every user can enable and disable their own base;
2. Manually-managed conference whereby a console operator periodically enables reservations received in sequence from each base;
3. Automatically-managed conference whereby there is no operator console and each base can only be enabled after the shutdown of the previously lit base;
4. Conference managed on a limited basis whereby reserved bases are enabled to speak to groups with a maximum of two bases at a time.

The three managed conference modes may use the console's built-in timer to assign a time limit for the enablement of each base. The console also permits the voting session to start solely for enabled bases. It features control buttons and a backlit display for the management of all operating parameters and the display of reservations and voting results. Up to two management consoles are possible in a conference system; in case of use of a PC workstation it is however possible for a management console to act as a secondary control station.

AUDIO TRANSMITTER

TA45

Cod. 5200-450630



4-channel audio transmitter used to connect simultaneous translation of microphone units to interpreter terminals and infrared system. It can be connected with the most common simultaneous translation systems.

TECHNICAL SPECIFICATIONS

Power supply	230Vac - 50 ÷ 60Hz
Absorption	11VA
Dimensions (WxHxD)	483x44x1185mm
Colour	black/grey
Weight	2,3Kg

SIGNAL AMPLIFIER

UL345

Cod. 5200-450710



Accessory used to extend lines beyond 15 m between A300 power supply (or with 41/99) and first microphone unit, or double the units in the same microphone line (from 10-11 to 30).

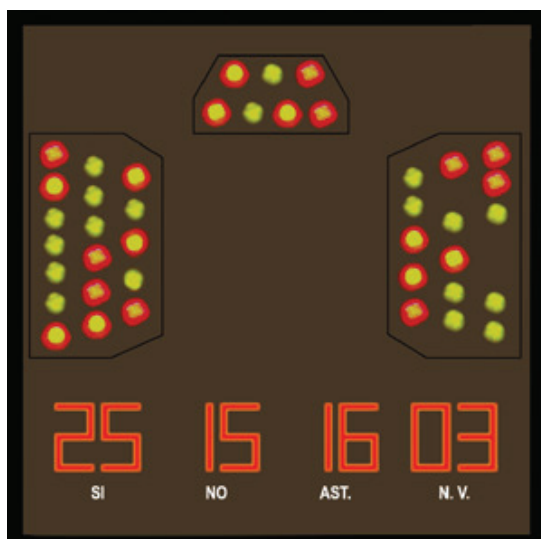
TECHNICAL SPECIFICATIONS

Connessione	2 x RJ45
Power supply	24Vdc
Dimensions (WxHxD)	125x70x40mm

SERIES 400/500 SYNOPTIC BOARD

QS45

Cod. 5200-450690



The wall-mounted mimic panel allows for the graphic representation of the provision of microphone bases located within the conference room and to identify users present: indicators are switched off for those who are absent. In the case of open voting, the vote preference of each user is represented by a different colour: Green = Yes, Red = No, Orange = ABSTAIN. The total results for each type of voting (not only open voting) are displayed in specific sections: YES, NO, ABST. N.V. The panel can be customised in terms of size, colour, positioning of the indicator lights, etc. in order to be specific for each type of room. The panel is equipped with a connection cable for the end of any of the microphone lines.

TECHNICAL SPECIFICATIONS

Mounting	wall mount
Connection	female Sub-D 9
Cable length	10m
Power supply	230Vac - 50÷60Hz
Absorption	50VA

SERIES 400/500 DISPLAY BOARD

TL45

Cod. 5200-450670



The wall-mounted seven-segment lit display displays the outcome of voting conducted from the microphone bases. It reports the tally of YES, NO and ABST votes, as well as those not eligible to vote (N.V.) and is equipped with a connection cable for the end of any of the microphone lines.

TECHNICAL SPECIFICATIONS

Mounting	wall mount
Connessione	female Sub-D 9
Cable length	10m
Power supply	230Vac - 50÷60Hz
Absorption	50VA
Dimensions (WxHxD)	700x700x115mm
Colour	black
Weight	8Kg

ACCESSORIES FOR CONFERENCE SYSTEMS

TRANSPONDER CARD

KB500

Cod. 5200-503500

Kit of 50 transponder cards for series 500 microphone units.

CARD CUSTOMIZATION

PB1

Cod. 5200-505010

One side transponder card customization with dedicated image and/or user name.

PB2

Cod. 5200-505020

Two side transponder card customization with dedicated image and/or user name.

ACCESSORY FOR MICROPHONE EXTENSION H 58CM

PM58

Cod. 5100-345510

Accessory to extend the microphone stands by 12 cm for all bases in the three conference systems. Must be requested at the time of order of the bases.

COMMON CABLES FOR SERIES 300, 400 AND 500

C2/470

Cod. 5100-345020

2m cable, class 5 SF/UTP for connection between units.

C5/471

Cod. 5100-345050

5m cable, class SF/UTP, line and/or connection between units.

C15/472

Cod. 5100-345150

15m cable, class SF/UTP, line and/or connection between units.

CL/345

Cod. 5100-345000

Line cable, black colour, 100m coil.