ITC

BMS

BUILDING MANAGEMENT SYSTEMS

MEGA-IP GENERAL FEATURES

MEGA-IP is an innovative and extremely versatile system with high processing power, which introduces new standards to hotel management and domotics in general. Born from two decades of experience in the "building automation" sector, it uses the most up-to-date technologies currently available on the market. Control units connected to the Ethernet and TCP/IP protocol make the system simple to install and allows existing infrastructures to be used, thus preventing the need for new BUS connections.

Modularity and configurability, along with new monitoring and control devices, hugely broadening the fields of application for the MEGA-IP compared to previous systems: hotels, residences, villas, offices are just some of the places where it can be used. Specific modules for the management of air conditioning, lighting, electric shutters, etc., so that installations can be adapted to specific needs, ensuring maximum energy saving and guests comfort.

The use of glass touch panels introduces a touch of design and originality to the system, giving it greater functionality and reducing mechanical wear and possibilities of breakdown.

SYSTEM STRUCTURE AND MAIN FUNCTIONS

MEGA-IP is an on-line system which uses small peripheral units with their own intelligence and the possibility to save data, for installation in the room's electrical panel. The units are connected to a monitoring PC via Ethernet or traditional half-duplex RS485 bus. Various types of control panels and peripherals can be connected to them via local RS485 bus, enabling management of the following functions:

- Access to rooms and shared spaces using a 13.56MHz Mifare card.
- Activation of electricity and management of each single light source in a room, with possibility to regulate intensity and select specific lighting scenarios.
- Air conditioning in guest rooms, bathroom and shared spaces based on daily thermal profiles linked to bookings and occupancy, with the aim of achieving maximum energy savings without reducing guests' comfort.
- Control of electric shutters.
- Detection of bathroom alarms, overflow or break-ins.
- Monitoring of room status (free, occupied, to be cleaned).
- Facilities (housekeeping request, mini-bar status, room service, do not disturb, etc.).
- Supervision of technological installations (alarm detection and anomalies signalling, remote activation of lights and electrical equipment, monitoring of thermal plant, etc.).
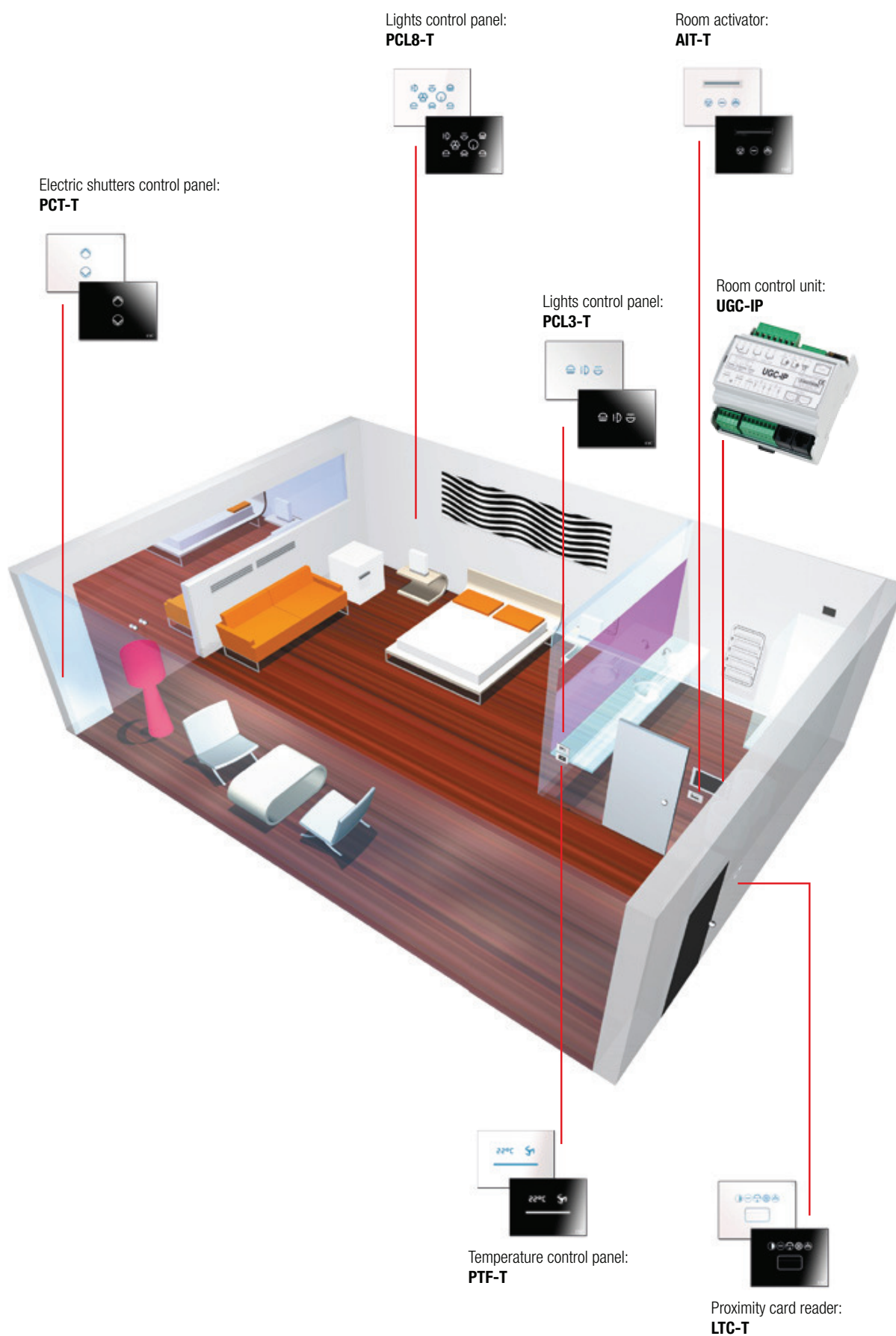
The self-diagnostic function can detect and signal any malfunction in a peripheral unit, module or control panel, further increasing the system's level of safety and reliability.

The archive stores all data relating to accesses, alarms and anomalies. Specific searches, printing and exporting of results, making it a fundamental tool for managing the unit on which the system is installed.

Additional client monitoring computers may be networked with the main computer making the system suitable for installation in hotels of all sizes.

The interface to the most common air conditioning and front-office systems (PMS) meets the needs of modern reception facilities, ensuring efficiency and speed, making the system open and extremely powerful. Further and new types of interface can be implemented on request.

MEGA-IP is, without a doubt, a blend of design and technology which aims to increase guest safety and comfort, while ensuring high energy savings. Ease of use, efficiency and reliability make it an invaluable companion in the management of hotels and reception facilities where it is installed.

Lights control panel:
PCL8-T

Room activator:
AIT-T

Electric shutters control panel:
PCT-T

Lights control panel:
PCL3-T

Room control unit:
UGC-IP

Temperature control panel:
PTF-T

Proximity card reader:
LTC-T

ROOM CONTROL UNIT

UGC-IP   Cod. 6700-101010

NEW

The room control unit is housed in a 5-module box for DIN rail. It has the following inputs:
-   balanced input (with line integrity control) connecting the bathroom pull cord and overflow sensor (with volt-free contact);
-   analog input configurable for connection to one of the following devices: volumetric anti-break-in sensor, simple overflow sensor, alarm contact, Do Not Disturb button, Courtesy Light button, Housekeeping button, Room Service button, Open Door from Bedhead button, Reset Facilities button (alarm, cleaning, mini-bar and room service), timed button, switch, guest/staff presence contact;
-   3 digital inputs configurable for connection to the following devices: room window switch, bathroom window switch, door switch, mini-bar switch, volumetric anti-break-in sensor, simple overflow sensor, alarm contact, Do Not Disturb button, Courtesy Light button, Housekeeping button, Room Service button, Open Door from Bedhead button, Reset Facilities button (alarm, cleaning, mini-bar and room service), button, timed button, switch, guest/staff presence contact. Features the following relay outputs with volt-free contacts for 230Vac 4(2)A loads:
-   courtesy light;
-   room electricity contactor;
-   configurable AUX output managing one of the following functions: bell, water valve, balcony light, electric shutters (opening or closing), ON/OFF thermostat, activation via button, activation via timed button, activation via switch.

There are also two 12Vdc outputs for indicator lights: "Do Not Disturb", "Housekeeping" or "Room Service" and one 12Vdc, max 1.2A output for the door lock.
An RJ45 plug connects the unit to the Ethernet to exchange data with the monitoring computer via TCP/IP protocol. Alternatively it is possible to connect to the traditional RS 485 bus via 2–pin connector. There is also a dual RJ12 connector to connect to expansion units and control panels.
Addressing via 12-way dip-switch, reprogrammable microcontroller via bus or network, non-volatile memory for archiving events even when there is no connection to the monitoring computer.
12Vdc, 3.5A power supply. Dimensions 88x100x62 mm. Weight 0.3 Kg.

TECHNOLOGICAL CONTROL UNIT

UGT-IP Cod. 6700-107010

NEW

The technological control unit is housed in a 5-module box for DIN rail. It has three analog and one digital configurable inputs which can be connected to the following devices:
- temperature sensors for common areas (analog inputs only);
- alarm or anomaly contacts;
- switches;
- buttons;
- bathroom emergency pull cords;
- overflow sensors;
- energy meters.

It also has four relay outputs with voltage-free contacts for 230Vac, 4(2)A loads for managing devices connected to the relative inputs (thermostats, alarm repetition, etc.), for monitoring access (opening contact) and ON/OFF or timed activation via computer. An RJ45 connector connects the unit to the Ethernet to exchange data with the monitoring computer via TCP/IP protocol. Alternatively it is possible to connect to the traditional RS 485 bus via 2–pin connector. Dual RJ12 connector for connecting expansion units and control panels. Addressing via 12-way dip-switch, reprogrammable microcontroller via bus or network, non-volatile memory for archiving events (alarms, access, etc.) even when there is no connection to the monitoring computer. 12Vdc, 3.5A power supply. Dimensions 88x100x62 mm. Weight 0.3 Kg.

FANCOIL CONTROL UNIT

UGF-IP Cod. 6700-103010

NEW

The fan-coil control unit is housed in a 4-module box for DIN rail. Features the following inputs:
- configurable input for bathroom or room window switch, button, timed button, switch;
- input for bathroom or room temperature sensor
- features the following relay outputs with voltage-free contacts for 230Vac, 4(2)A loads:
- Low-speed fan-coil relay;
- Medium-speed fan-coil relay. Alternatively, ON/OFF or timed activation via computer, shutter opening or shutter closing;
- High-speed fan-coil relay. Alternatively, ON/OFF or timed activation via computer, shutter opening or shutter closing;
- hot/cold water solenoid valve relay for 2-tube fan-coil or hot water solenoid valve for 4-tube fan-coil. Alternatively, ON/OFF or timed activation via computer, shutter opening or shutter closing;
- heated towel rail or cold water solenoid valve relay for 4-tube fan coil. Alternatively, slaved activation, timed slaved activation, shutter opening, shutter closing, activation via button, timed button or switch.

Also features a 0-10Vdc output for controlling radiator modulating valve or fan-coil. Connection to UGC-IP or UGT-IP control unit and other units or panels via RJ12 connectors. 12Vdc power supply directly from UGC-IP or UGT-IP units via RJ12 connector or specific 12Vdc, 3.5A power supply unit. Dimensions 70x100x62 mm. Weight 0.2 Kg.
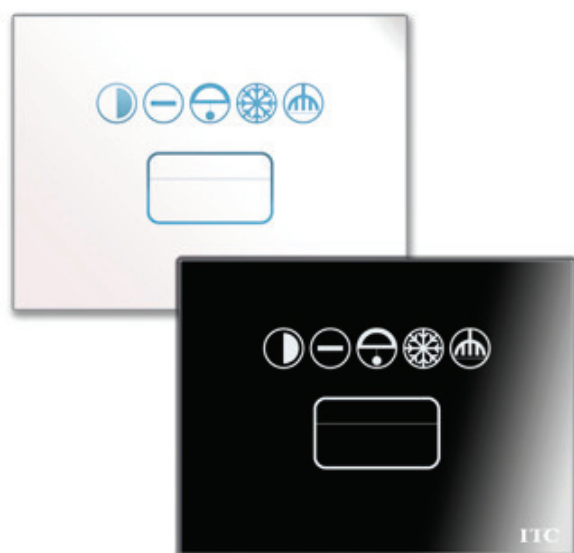
PROXIMITY CARD READER

LTC-T   Cod. 6700-113000

NEW

13.56MHz Mifare proximity card reader, with capacitive glass touch panel. Enables differentiated access to room for guests, staff, managers, maintenance operators, etc. Features "bell" button and icons signally "guest in room", "do not disturb", "check mini-bar" and "room to be cleaned". Also signals "valid card", "invalid card" and "alarm in progress". Housed in 3 modules flush mounting box. Connection to UGC-IP unit and other units or panels via RJ12 connector for transmission of data and for 12Vdc power supply. Dimensions 127x95x9mm (+44mm internal). Weight 0.2 Kg.

CODE	ITEM	COLOUR	AVAIL.
6700-113001	LTC-T B	white	●
6700-113002	LTC-T N	black	●

Available ●
Available on demand ○

PROXIMITY CARD READER FOR COMMON AREAS

LTZ-T   Cod. 6700-117000

NEW
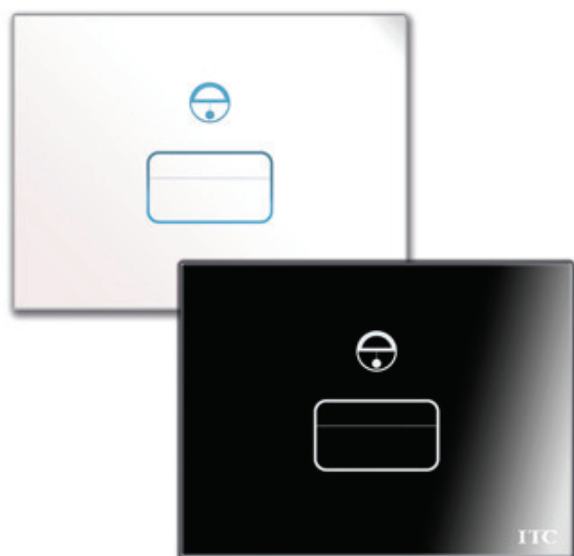
13.56MHz Mifare proximity card reader, with capacitive glass touch panel. Allows differentiated access to shared spaces for guests, staff, managers, maintenance operators, etc. Features "bell" button and relay output with volt-free contact for electronic ringtone or opening contact (max. 24V, 4(2)A). Housed in 3 modules flush mounting box. Connection to UGT-IP unit and other units or panels via RJ12 connector for transmission of data and for 12Vdc power supply. Dimensions 127x95x9mm (+44mm internal). Weight 0.2 Kg.

CODE	ITEM	COLOUR	AVAIL.
6700-117001	LTZ-T B	white	●
6700-117002	LTZ-T N	black	●

Available ●
Available on demand ○

SMART ROOM ACTIVATOR

AIT-T

NEW

Cod. 6700-125000

Detects the presence within room of guest or staff via proximity card in slot and activates the room's facilities only if the card has been enabled. Capacitive glass touch panel with illuminated slot for card. Features buttons for "room service", "do not disturb" and "housekeeping" . Housed in 3 modules flush mounting box. Connection to UGC-IP unit and further units or panels via RJ12 connector for transmission of data and for 12Vdc power supply. Dimensions 127x95x9mm (+44mm internal). Weight 0.2 Kg.

CODE	ITEM	COLOUR	AVAIL.
6700-125001	AIT-T B	white	●
6700-125002	AIT-T N	black	●

Available ●
Available on demand ○

TEMPERATURE CONTROL PANEL

PTF-T

NEW

Cod. 6700-133000

Capacitive glass touch panel for managing air conditioning, with integrated temperature sensor. Allows the guest to change temperature, speed, automatic or manual functioning mode and to shut down the air conditioning system. The display shows the set temperature, the actual temperature, speed, functioning mode, windows status and alarm messages (help request, overflow, break-in). The panel allows staff to reset alarms locally and set "room cleaned" and "mini-bar replenished" messages. Housed in 3 modules flush mounting box. Connected to UGC-IP, UGT-IP and UGF units via RJ12 connector for transmission of data and for 12Vdc power supply. Alternatively may be supplied directly via specific 12Vdc, 3.5A power supply unit. Dimensions 127x95x9mm (+44mm internal). Weight 0.2 Kg.

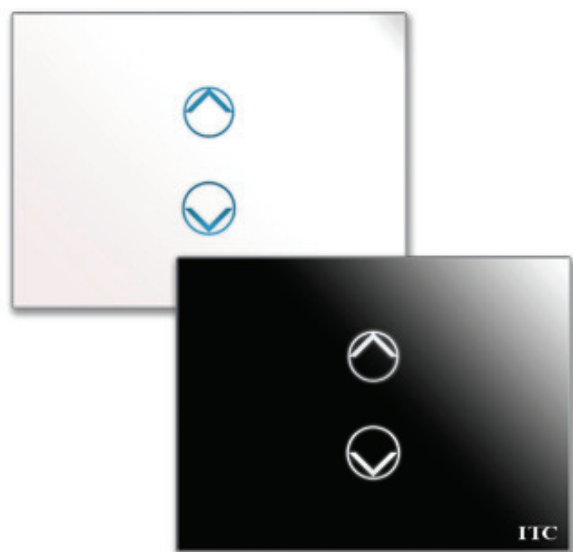| CODE	ITEM	COLOUR	AVAIL.
6700-133001	PTF-T B	white	●
6700-133002	PTF-T N	black	●

Available ●
Available on demand ○

ELECTRIC SHUTTERS CONTROL PANEL

PCT-T

Cod. 6700-162000

NEW

Capacitive glass touch panel to control electric shutters. Features two backlit touch buttons for opening and closing electric shutters. Housed in 3 modules flush mounting box. Connection to UGC-IP and UGT-IP unit or other units or panels via RJ12 connector for transmission of data and for 12Vdc power supply. Dimensions 127x95x9mm. (+44mm internal). Weight 0.2 Kg.

CODE	ITEM	COLOUR	AVAIL.
6700-162001	PCT-T B	white	●
6700-162002	PCT-T N	black	●

Available ●
Available on demand ○

LIGHTS CONTROL UNIT

UGL-IP

Cod. 6700-105010

NEW

The lights control unit is housed in a 4-module box for DIN rail and allows ON/OFF and regulation of intensity and colour of 9 different light points. Features 6x0-10Vdc outputs for controlling electronic dimmers and two relays for 230Vac, max 4(2)A loads. It is also provided with DALI and DMX outputs to control white and coloured lights. Activation of light sources may be via capacitive glass touch panel or traditional buttons connected to the four inputs available on the unit.
Connection to UGC-IP or UGT-IP control unit and further expansion units and panels via RJ12 connectors. 12Vdc power supply directly from UGC-IP or UGT-IP units via RJ12 connector or specific 12Vdc, 3.5A power supply unit. Dimensions 70x100x62 mm. Weight 0.2 Kg.

8-COMMANDS LIGHTS CONTROL PANEL

PCL8-T

NEW

Cod. 6700-158000
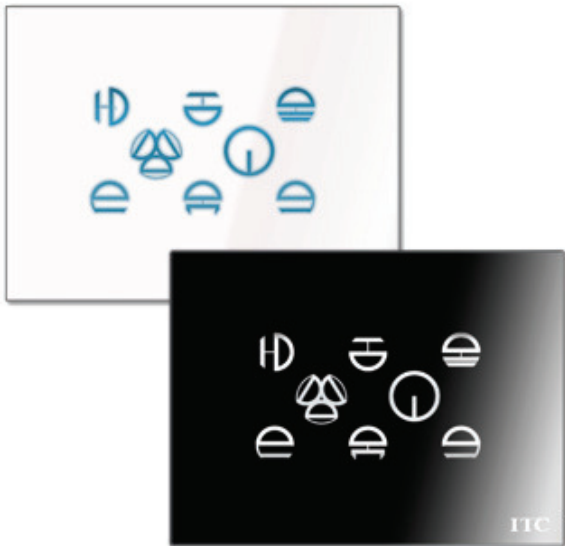
Capacitive glass touch panel to control lights. Features 6 buttons for ON/OFF and regulating intensity of 6 light sources, one button to select lighting scenarios and a general OFF button for lighting. Housed in 3 modules flush mounting box. Connection to UGL, UGC-IP, UGT-IP unit and further units or panels via RJ12 connector for transmission of data and for 12Vdc power supply. Dimensions 127x95x9mm (+44mm internal). Weight 0.2 Kg.

CODE	ITEM	COLOUR	AVAIL.
6700-158001	PCL8-T B	white	●
6700-158002	PCL8-T N	black	●

Available ●
Available on demand ○

3-COMMANDS LIGHTS CONTROL PANEL

PCL3-T

NEW

Cod. 6700-153000
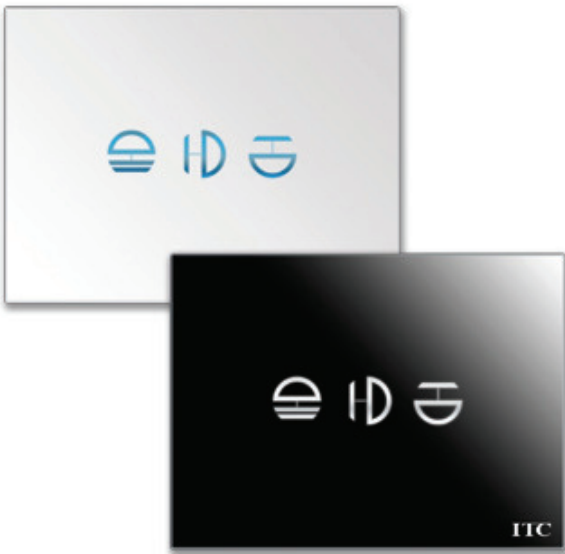
Capacitive glass touch panel for ON/OFF and regulating intensity of 3 light sources. Housed in 3 modules flush mounting box. Connection to UGL, UGC-IP, UGT-IP unit or other units and panels via RJ12 connector for transmission of data and 12Vdc power supply. Dimensions 127x95x9mm (+44mm internal). Weight 0.2 Kg.

CODE	ITEM	COLOUR	AVAIL.
6700-153001	PCL3-T B	white	●
6700-153002	PCL3-T N	black	●

Available ●
Available on demand ○

2IN-2OUT EXPANSION UNIT

UE2-IP

NEW

Cod. 6700-109020

The 2IN-2OUT expansion unit is housed in a 3-module box for DIN rail. It has two configurable analog inputs which, when combined with the UGC-IP room control unit, can be connected to the following devices:
- bathroom temperature sensor;
- room temperature sensor;
- bathroom window switch;
- room window switch;
- open shutters button
- close shutters button.

If used with the UGT-IP technological control unit, may be connected to:
- temperature sensors for common areas;
- alarm or anomaly contacts;
- switches;
- buttons;
- bathroom emergency pull cords;
- overflow sensors;
- energy meters.

It also has four relay outputs with voltage-free contacts for 230Vac, 4(2)A loads for managing devices connected to the relative inputs (thermostats, shutters, etc.). and ON/OFF or timed activation via computer. Connection to UGC-IP or UGT-IP control unit and other expansion and monitoring units via RJ12 connectors also with necessary 12Vdc power supply. Dimensions 52x100x62 mm. Weight 0.1 Kg.

4IN-4OUT EXPANSION UNIT

UE4-IP

NEW

Cod. 6700-109040

The 4IN-4OUT expansion unit is housed in a 4-module box for DIN rail. It has four configurable analog inputs which can be connected to the following devices:
- temperature sensors for common areas;
- alarm or anomaly contacts;
- switches;
- buttons;
- bathroom emergency pull cords;
- overflow sensors;
- energy meters.

It also has four relay outputs with voltage-free contacts for 230Vac, 4(2)A loads for managing devices connected to the relative inputs (thermostats, etc.) and ON/OFF or timed activation via computer. Connection to the UGT-IP control unit and other expansion and monitoring units via RJ12 connectors also with necessary 12Vdc power supply. Alternatively may be supplied directly by specific 12Vdc, 3.5A power supply unit, Dimensions 70x100x62 mm. Weight 0.2 Kg.

PROXIMITY CARD

STM 13.56MHz Mifare proximity card, 1K memory, credit card format, standard printing. Dimensions: 54x85x0.8 mm. Weight 0.01 Kg. Cod. 6700-235010

MONITORING AND CONTROL SOFTWARE

Power and ease of use are the main characteristics of this software with a clean and intuitive graphic interface which, with a few clicks, allows you to reach every section dedicated to monitoring the system's fundamental features: bookings, access control, temperature control, room status, staff management, technological functions, etc. Particular attention has been paid to the security section (such as the signalling of alarms and anomalies, self-diagnostics, consultation and printing of historical archive, etc.), with automatic backup option for all parameters and system recovery in the event of computer damage. Designed for small and large installations, it can handle additional monitoring workstations and interface modules with front-office systems, air conditioning systems, fire detection systems, etc.

SWB-IP MEGA-IP system basic functions management software Cod. 6700-300010

SWG-IP25 MEGA-IP system management software from 1 to 25 rooms. Cod. 6700-181025

SWG-IP50 MEGA-IP system management software from 26 to 50 rooms. Cod. 6700-181050

SWG-IP75 MEGA-IP system management software from 51 to 75 rooms. Cod. 6700-181075

SWG-IP100 MEGA-IP system management software from 76 to 100 rooms. Cod. 6700-181100

SWG-IP150 MEGA-IP system management software from 101 to 150 rooms. Cod. 6700-181150

SWG-IP200 MEGA-IP system management software from 151 to 200 rooms. Cod. 6700-181200

SWG-IP250 MEGA-IP system management software from 201 to 250 rooms. Cod. 6700-181250

SWG-IP500 MEGA-IP system management software from 251 to 500 rooms. Cod. 6700-181500

SWG-IP1000 MEGA-IP system management software from 501 to 1000 rooms. Cod. 6700-181999

TECHNOLOGICAL CONTROL UNIT SOFTWARE

SWGT-IP5 Technological control unit management software from 1 to 5 UGT-IP units. Cod. 6700-183005

SWGT-IP10 Technological control unit management software from 6 to 10 UGT-IP units. Cod. 6700-183010

SWGT-IP15 Technological control unit management software from 11 to 15 UGT-IP units. Cod. 6700-183015

SWGT-IP20 Technological control unit management software from 16 to 20 UGT-IP units. Cod. 6700-183020

SWGT-IP25 Technological control unit management software from 21 to 25 UGT-IP units. Cod. 6700-183025

SWGT-IP35 Technological control unit management software from 26 to 35 UGT-IP units. Cod. 6700-183035

SWGT-IP50 Technological control unit management software from 36 to 50 UGT-IP units. Cod. 6700-183050

SWGT-IP75 Technological control unit management software from 51 to 75 UGT-IP units. Cod. 6700-183075

SWGT-IP100 Technological control unit management software from 76 to 100 UGT-IP units. Cod. 6700-183100

EXPANSION UNITS SOFTWARE

SWGE-IP25	Lights/fan coil/expansion unit management software from 1 to 25 units.	Cod. 6700-190025
SWGE-IP50	Lights/fan coil/expansion unit management software from 26 to 50 units.	Cod. 6700-190050
SWGE-IP75	Lights/fan coil/expansion unit management software from 51 to 75 units.	Cod. 6700-190075
SWGE-IP100	Lights/fan coil/expansion unit management software from 76 to 100 units.	Cod. 6700-190100
SWGE-IP150	Lights/fan coil/expansion unit management software from 101 to 150 units.	Cod. 6700-190150
SWGE-IP200	Lights/fan coil/expansion unit management software from 151 to 200 units.	Cod. 6700-190200
SWGE-IP250	Lights/fan coil/expansion unit management software from 201 to 250 units.	Cod. 6700-190250
SWGE-IP500	Lights/fan coil/expansion unit management software from 251 to 500 units.	Cod. 6700-190500
SWGE-IP750	Lights/fan coil/expansion unit management software from 501 to 750 units.	Cod. 6700-190750
SWGE-IP1000	Lights/fan coil/expansion unit management software from 751 to 1000 units.	Cod. 6700-191000
SWGE-IP1500	Lights/fan coil/expansion unit management software from 1001 to 1500 units.	Cod. 6700-191500
SWGE-IP2000	Lights/fan coil/expansion unit management software from 1501 to 2000 units.	Cod. 6700-192000
SWGE-IP3000	Lights/fan coil/expansion unit management software from 2001 to 3000 units.	Cod. 6700-193000

SOFTWARE

SWPA-IP	Monitoring and control software for additional workstation.	Cod. 6700-311310
SWA-IP	Software upgrade for new implementations.	Cod. 6700-310010

MEGA-IP WIRING DIAGRAM
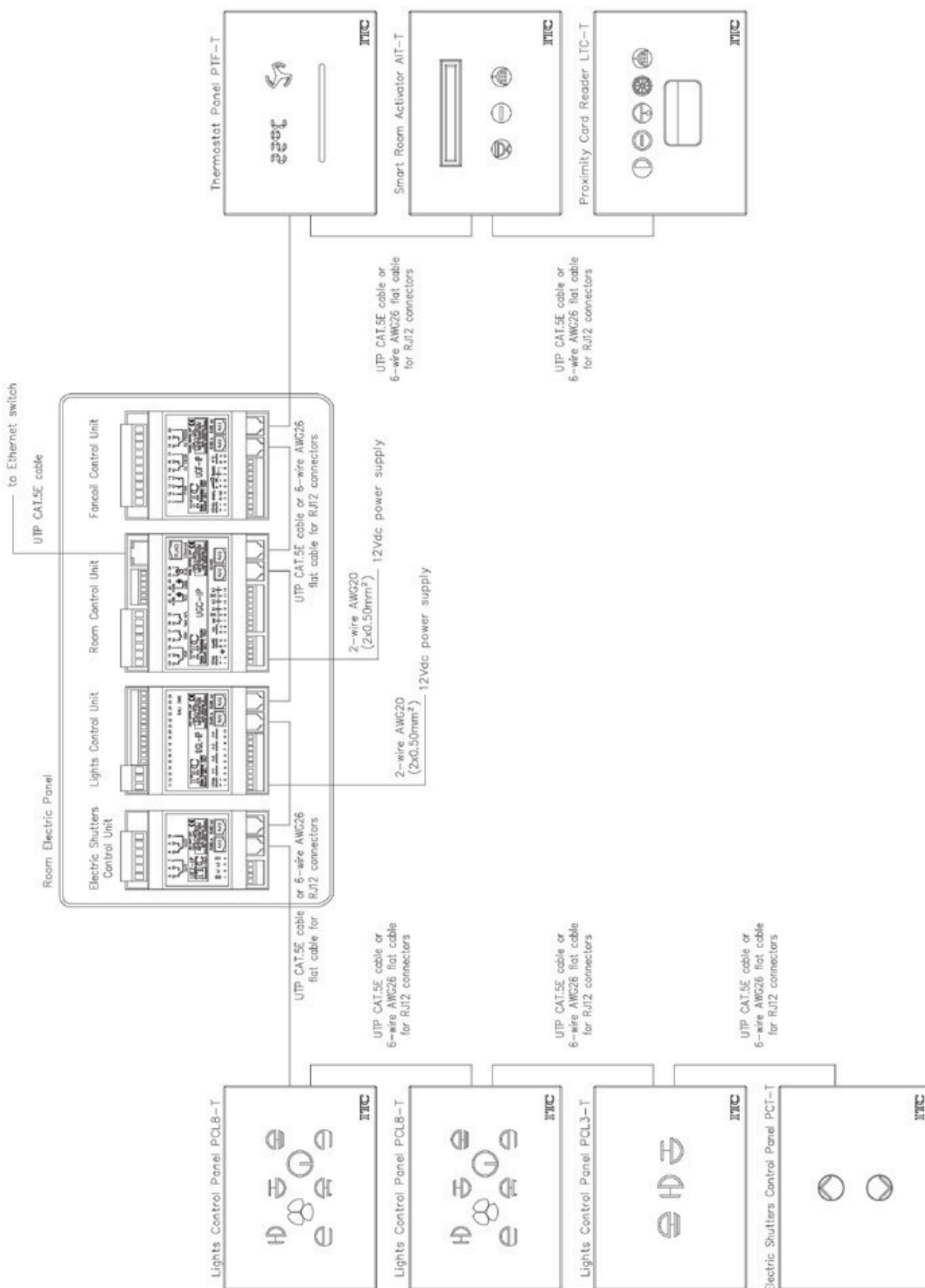
MEGA GENERAL FEATURES

MEGA is a distributed intelligence system for automatic management and control of room automation functions in hotel facilities of any size, residential hotels, office buildings, etc. in order to improve comfort for guests and save on heating and electricity costs. The control units installed in the rooms communicate with the PC-based central supervision station over a BUS. They are provided with independent intelligence to manage the controlled processes also without communication with the central station. The user-friendly application installed in the PC controls the following functions:

- Air conditioning/heating of rooms, bathrooms and common areas.
- Safety: the system detects bathroom and flood alarms. Intrusions are detected by controlling the status of doors and windows or by means of volumetric motion sensors. When the room is empty the lights and sockets are deactivated.
- Access control to rooms and common areas by guests and staff by means of chip card or transponder readers, with access record function.
- Room status: free, in use, to clean.
- Energy saving: the activation of air conditioning/heating and electricity in rooms depends on the presence of guests.
- Administration: the system can be interfaced with some of the most popular front-office PMS applications.
- Self-diagnostics: system anomalies are detected.
- Supervision of technological installations: you can activate lights of external and/or common areas, pumps and actuators.

The software can be customised for the specific installation. The structure of the system, which is based on "distributed intelligence" concept, provides for two levels:

- First level, composed of a dedicated PC with the management software.
- Second level, composed of modular units with microprocessor (MEGA and MEGA-TECH control units) connected in network and to the PC with UTP CAT.5 bus cable (1x2 unshielded). The control units are installed in the room electrical panels and manage the assigned area (room) independently. By communication with the control units, the PC supervises and coordinates the entire system automatically and detects malfunctioning, faults and alarms.

The PC must be always on.
In case of PC anomalies the main functions of the system are guaranteed.

Room activator:
AS/AIC

Room activator:
AIT

Fan coil thermostat panel:
PTF

Radiator thermostat panel:
PTR

Room control unit:
UGC

or

or

Temperature sensor:
STI

or

Proximity card reader:
LTC

Chip card reader:
LCC
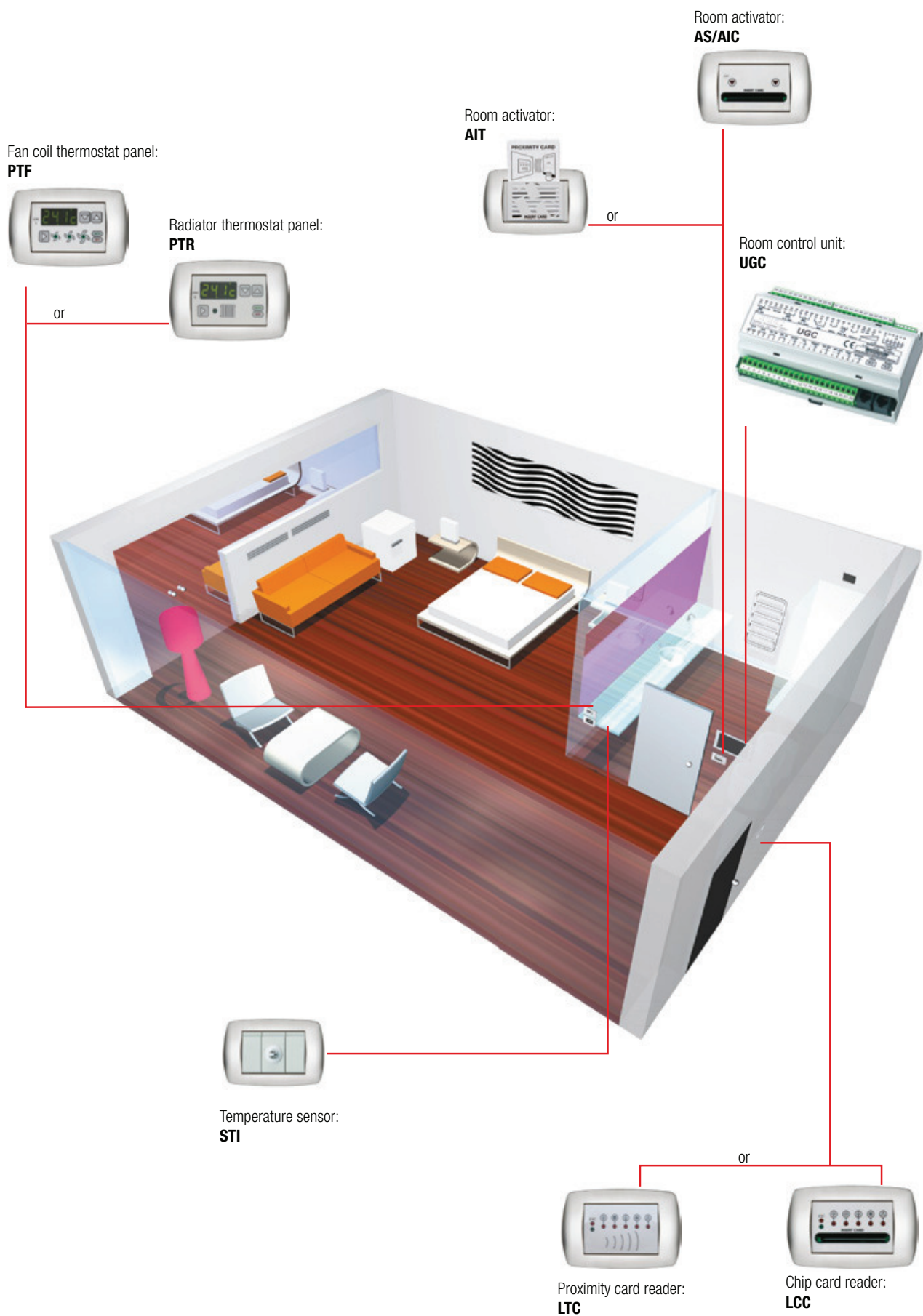
ROOM CONTROL UNIT

UGC   Cod. 6100-101010
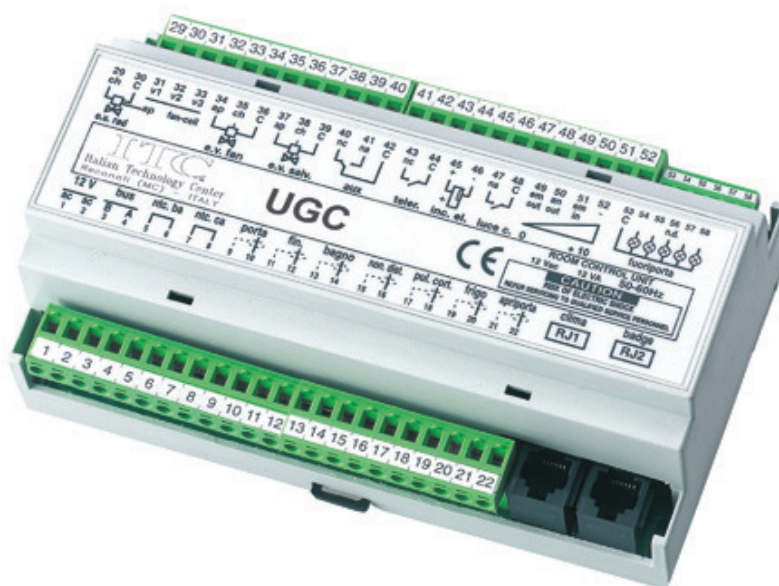
The "MEGA" control unit is housed in 9-module box for DIN rail. It is provided with analog and digital inputs for connection of the following devices:
- chip card or proximity card reader
- door-bell push button
- room activation panel
- bathroom temperature sensor
- room temperature sensor
- room temperature panel
- door open contact
- window open contact
- mini bar open contact
- bathroom pull cord for help call
- flood sensor
- volumetric motion sensor against intrusion
- "do not disturb" push button
- courtesy light push button
- door open push button from bed headboard

It is provided with relay outputs with voltage free contacts for 230Vac – 4(2)A loads to control:
- courtesy light
- room electricity contactor
- ON/OFF towel warmer electrovalve
- 3-speed fan-coil fan
- either ON/OFF fan-coil electrovalve or ON/OFF, modulating motorized or modulating linear radiator electrovalve (controlled with 0-10Vdc continuous voltage)
- AUX output to close electric shutters or water electrovalve in case of flood, switch-on balcony light or activate bell.

The control unit is also provided with 5 SCR outputs for out-of-door signalling (guest in room, do not disturb, room to clean, minibar to check, help call/flood) and one 12Vdc output, max. 1.2A for electric door lock. Data transmission over UTP CAT.5 bus cable with two wires, RS 485 standard. Flash-type reprogrammable microcontroller. 12Vac, 30VA power supply. Dimensions: 160x100x60mm. Weight: 0.50 kg.

CHIP CARD READER WITH SYNOPTIC
LCC Cod. 6100-111000

It provides access to the room in different mode for guests, managers, staff and maintenance operators. It is provided with illuminated insertion slot for chip cards with ISO 7816 format and 2 leds for card validity. It is also provided with 5 light signals to display: "guest in room", "do not disturb", "room to clean", "mini-bar to check", "help call/flood". It is housed in 3-module box and connected to room activator with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth 50mm.
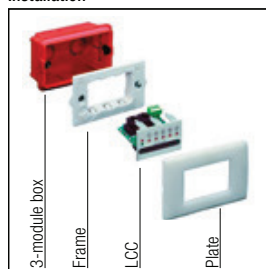
Installation

3-module box | Frame | LCC | Plate

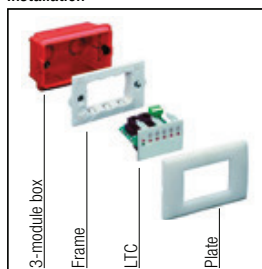| CODE	ITEM		CIVIL SERIES		AVAIL.
6101-111011	LCC	A1		Blanc	white	●
6101-111022	LCC	A2		Noir AX	black	●
6101-	LCC	A3	AVE	Banquise	white	○
6101-111041	LCC	A4		Domus 100	white	●
6101-	LCC	A5		RAL	white	○
6101-	LCC	A6		LIFE 44	black	○
6102-	LCC	BT0		Magic	white	○
6102-	LCC	BT1		Living	black	○
6102-111022	LCC	BT2		Living Intern.	black	●
6102-111031	LCC	BT3		Light	white	●
6102-111041	LCC	BT4	TICINO	Luna	white	○
6102-111053	LCC	BT5		Ligh-Tech	silver	●
6102-111061	LCC	BT6		Matix	white	●
6102-111073	LCC	BT7		Axolute	white	●
6102-	LCC	BT8		Axolute	white	○
6103-	LCC	G1		Playbus	white	●
6103-111022	LCC	G2		Playbus	black	●
6103-111031	LCC	G3		Chorus	white	●
6103-111043	LCC	G4	GEWISS	Chorus	silver	●
6103-111052	LCC	G5		Chorus	black	●
6103-	LCC	G6		System 9000	white	○
6103-	LCC	G7		System 9000	black	○
6104-	LCC	L1	LEGRAND	Cross	white	○
6104-111022	LCC	L2		Vela	black	○
6105-	LCC	S1	SIEMENS	Delta Futura	white	●
6105-	LCC	S2		Delta Futura	black	●
6106-	LCC	V0		8000	white	○
6106-111011	LCC	V1		Idea	white	●
6106-111022	LCC	V2		Idea	black	●
6106-111031	LCC	V3	VIMAR	Plana	white	●
6106-111043	LCC	V4		Eikon	silver	●
6106-111052	LCC	V5		Eikon	black	○
6106-111061	LCC	V6		Eikon	white	○
6106-	LCC	V7		Plana	grey	○

Available ●
Available on demand ○

PROXIMITY CARD READER WITH SYNOPTIC
LTC Cod. 6100-113000

It provides access to the room by proximity cards ISO 7816 format in different mode for guests, managers, staff, maintenance operators, etc. Max. reading distance 5 cm. It is provided with 2 leds for card validity and 5 light signals to display: "guest in room", "do not disturb", "room to clean", "mini-bar to check", "help call/flood alarm". It is housed in 3-module box and connected to room activator with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth 53mm.

Installation

3-module box | Frame | LTC | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
6101-113011	LTC	A1		Blanc	white	●
6101-113022	LTC	A2		Noir AX	black	●
6101-113031	LTC	A3	AVE	Banquise	white	●
6101-113041	LTC	A4		Domus 100	white	●
6101-	LTC	A5		RAL	white	○
6101-113062	LTC	A6		LIFE 44	black	●
6102-	LTC	BT0		Magic	white	○
6102-	LTC	BT1		Living	black	○
6102-113022	LTC	BT2		Living Intern.	black	●
6102-113031	LTC	BT3		Light	white	●
6102-113041	LTC	BT4	TICINO	Luna	white	●
6102-113053	LTC	BT5		Ligh-Tech	silver	●
6102-113061	LTC	BT6		Matix	white	●
6102-	LTC	BT7		Axolute	white	○
6102-113082	LTC	BT8		Axolute	white	●
6103-	LTC	G1		Playbus	white	○
6103-113022	LTC	G2		Playbus	black	●
6103-113031	LTC	G3		Chorus	white	●
6103-113043	LTC	G4	GEWISS	Chorus	silver	●
6103-113052	LTC	G5		Chorus	black	●
6103-	LTC	G6		System 9000	white	○
6103-	LTC	G7		System 9000	black	○
6104-	LCC	L1	LEGRAND	Cross	white	○
6104-	LTC	L2		Vela	black	○
6105-	LTC	S1	SIEMENS	Delta Futura	white	○
6105-	LTC	S2		Delta Futura	black	○
6106-	LTC	V0		8000	white	○
6106-113011	LTC	V1		Idea	white	●
6106-113022	LTC	V2		Idea	black	●
6106-113031	LTC	V3	VIMAR	Plana	white	●
6106-113043	LTC	V4		Eikon	silver	●
6106-	LTC	V5		Eikon	black	○
6106-	LTC	V6		Eikon	white	○
6106-	LTC	V7		Plana	grey	○

Available ●
Available on demand ○

ROOM ACTIVATOR WITH JACK SOCKET

AJ Cod. 6100-127000

It detects the presence of guests or staff in the room and activates relevant services. Light for easier insertion of jack. It is housed in 1-module box. It is connected to the control unit Mega with 6-wire cable terminated with RJ12 PLUG. If the "PTF/PTR" panel is not installed, the button can be used by the staff to set the "room clean" and "full mini-bar" status. In this case a second 6-wire cable terminated with RJ12 PLUG must be used for connection to the MEGA control unit. Weight: 0.04 kg. Depth 40mm.

Installation

3-module box | Frame | AJ | Plate
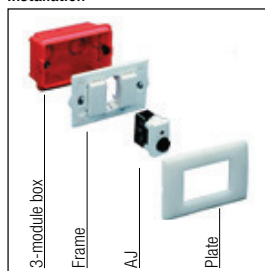
CODE	ITEM		CIVIL SERIES		AVAIL.
6101-127011	AJ	A1	Blanc	white	●
6101-	AJ	A2	Noir AX	black	○
6101-	AJ	A3	Banquise	white	○
6101-127041	AJ	A4	Domus 100	white	●
6101-	AJ	A5	RAL	white	○
6101-	AJ	A6	LIFE 44	black	○
6102-	AJ	BT0	Magic	white	○
6102-127012	AJ	BT1	Living	black	●
6102-127022	AJ	BT2	Living Intern.	black	●
6102-127031	AJ	BT3	Light	white	●
6102-	AJ	BT4	Luna	white	○
6102-127053	AJ	BT5	Ligh-Tech	silver	●
6102-127061	AJ	BT6	Matix	white	●
6102-	AJ	BT7	Axolute	white	○
6102-	AJ	BT8	Axolute	white	○
6103-	AJ	G1	Playbus	white	○
6103-127022	AJ	G2	Playbus	black	●
6103-	AJ	G3	Chorus	white	○
6103-	AJ	G4	Chorus	silver	○
6103-	AJ	G5	Chorus	black	○
6103-	AJ	G6	System 9000	white	○
6103-	AJ	G7	System 9000	black	○
6104-	AJ	L1	Cross	white	○
6104-	AJ	L2	Vela	black	○
6105-	AJ	S1	Delta Futura	white	○
6105-	AJ	S2	Delta Futura	black	○
6106-	AJ	V0	8000	white	○
6106-127011	AJ	V1	Idea	white	●
6106-127022	AJ	V2	Idea	black	●
6106-	AJ	V3	Plana	white	○
6106-127043	AJ	V4	Eikon	silver	●
6106-	AJ	V5	Eikon	black	○
6106-	AJ	V6	Eikon	white	○
6106-	AJ	V7	Plana	grey	○

Available ●
Available on demand ○

## ROOM ACTIVATOR - STANDARD TYPE

AS Cod. 6100-121000

It detects the presence of guests and staff in the room and activates relevant services. It is provided with illuminated insertion slot for ISO 7816 cards and 2 flashing leds for easier insertion. It is housed in 3-module box and connected to the control unit Mega with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth 44mm.

OPZIONAL MODIFICATION

AS/M Cod. 6600-243010
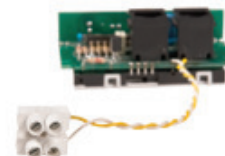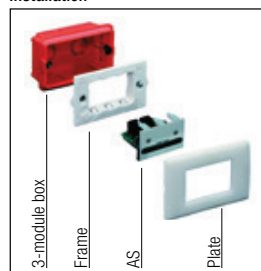
Modification enabling the connection of two 'AS' activators on the same UGC control unit.

Installation

3-module box | Frame | AS | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
6101-121011	AS	A1	Blanc	white	●
6101-121022	AS	A2	Noir AX	black	●
6101-121031	AS	A3	Banquise	white	●
6101-121041	AS	A4	Domus 100	white	●
6101-	AS	A5	RAL	white	○
6101-121062	AS	A6	LIFE 44	black	●
6102-	AS	BT0	Magic	white	○
6102-	AS	BT1	Living	black	○
6102-121022	AS	BT2	Living Intern.	black	●
6102-121031	AS	BT3	Light	white	●
6102-121041	AS	BT4	Luna	white	●
6102-121053	AS	BT5	Ligh-Tech	silver	●
6102-121061	AS	BT6	Matix	white	●
6102-121073	AS	BT7	Axolute	white	●
6102-121082	AS	BT8	Axolute	white	●
6103-	AS	G1	Playbus	white	○
6103-121022	AS	G2	Playbus	black	●
6103-121031	AS	G3	Chorus	white	●
6103-	AS	G4	Chorus	silver	○
6103-121052	AS	G5	Chorus	black	●
6103-	AS	G6	System 9000	white	○
6103-121072	AS	G7	System 9000	black	●
6104-	AS	L	Cross	white	○
6104-121022	AS	L2	Vela	black	●
6105-	AS	S1	Delta Futura	white	○
6105-	AS	S2	Delta Futura	black	○
6106-	AS	V0	8000	white	○
6106-121011	AS	V1	Idea	white	●
6106-121022	AS	V2	Idea	black	●
6106-121031	AS	V3	Plana	white	●
6106-121043	AS	V4	Eikon	silver	●
6106-121052	AS	V5	Eikon	black	●
6106-	AS	V6	Eikon	white	○
6106-	AS	V7	Plana	grey	○

Available ●
Available on demand ○

INTELLIGENT ROOM ACTIVATOR WITH CHIP CARD
### AIC   Cod. 6100-123000

It detects the presence of guests or staff in the room by reading the inserted chip and activates relevant services only if the card is enabled. It is provided with illuminated insertion slot for ISO 7816 cards and 2 flashing leds for easier insertion. It is housed in 3-module box and connected to the control unit Mega with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth 50mm.

Installation

3-module box | Frame | AIC | Plate
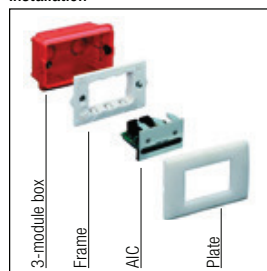
CODE	ITEM		CIVIL SERIES		AVAIL.
6101-123011	AIC	A1	Blanc	white	●
6101-123022	AIC	A2	Noir AX	black	●
6101-	AIC	A3	Banquise	white	○
6101-123041	AIC	A4	Domus 100	white	●
6101-	AIC	A5	RAL	white	○
6101-	AIC	A6	LIFE 44	black	○
6102-	AIC	BT0	Magic	white	○
6102-	AIC	BT1	Living	black	○
6102-123022	AIC	BT2	Living Intern.	black	●
6102-123031	AIC	BT3	Light	white	●
6102-	AIC	BT4	Luna	white	○
6102-	AIC	BT5	Ligh-Tech	silver	○
6102-123061	AIC	BT6	Matix	white	●
6102-	AIC	BT7	Axolute	white	●
6102-	AIC	BT8	Axolute	white	○
6103-	AIC	G1	Playbus	white	●
6103-123022	AIC	G2	Playbus	black	●
6103-123031	AIC	G3	Chorus	white	●
6103-123043	AIC	G4	Chorus	silver	●
6103-123052	AIC	G5	Chorus	black	●
6103-	AIC	G6	System 9000	white	○
6103-	AIC	G7	System 9000	black	○
6104-	AIC	L1	Cross	white	○
6104-	AIC	L2	Vela	black	○
6105-	AIC	S1	Delta Futura	white	○
6105-	AIC	S2	Delta Futura	black	○
6106-	AIC	V0	8000	white	○
6106-123011	AIC	V1	Idea	white	●
6106-123022	AIC	V2	Idea	black	●
6106-123031	AIC	V3	Plana	white	●
6106-	AIC	V4	Eikon	silver	○
6106-123052	AIC	V5	Eikon	black	○
6106-123061	AIC	V6	Eikon	white	○
6106-	AIC	V7	Plana	grey	○

Civil series groups: AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7)

Available ●
Available on demand ○

INTELLIGENT ROOM ACTIVATOR WITH PROXIMITY CARD
### AIT   Cod. 6100-125000

It detects the presence of guests or staff in the room by reading the proximity card inserted in the external pocket and activates room services only if the card is enabled. It is provided with 2 flashing leds for easier insertion. It is housed in 3-module box and connected with Mega control unit with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth 50mm.

Installation

3-module box | Frame | AIT | Plate
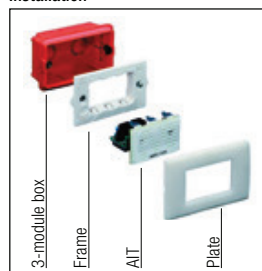
CODE	ITEM		CIVIL SERIES		AVAIL.
6101-	AIT	A1	Blanc	white	○
6101-125022	AIT	A2	Noir AX	black	●
6101-	AIT	A3	Banquise	white	○
6101-125041	AIT	A4	Domus 100	white	●
6101-	AIT	A5	RAL	white	○
6101-	AIT	A6	LIFE 44	black	○
6102-	AIT	BT0	Magic	white	○
6102-	AIT	BT1	Living	black	○
6102-125022	AIT	BT2	Living Intern.	black	●
6102-125031	AIT	BT3	Light	white	●
6102-	AIT	BT4	Luna	white	○
6102-	AIT	BT5	Ligh-Tech	silver	○
6102-125061	AIT	BT6	Matix	white	●
6102-	AIT	BT7	Axolute	white	○
6102-125082	AIT	BT8	Axolute	white	●
6103-	AIT	G1	Playbus	white	○
6103-125022	AIT	G2	Playbus	black	●
6103-125031	AIT	G3	Chorus	white	●
6103-125043	AIT	G4	Chorus	silver	●
6103-125052	AIT	G5	Chorus	black	●
6103-	AIT	G6	System 9000	white	○
6103-	AIT	G7	System 9000	black	○
6104-	AIT	L1	Cross	white	○
6104-	AIT	L2	Vela	black	○
6105-	AIT	S1	Delta Futura	white	○
6105-	AIT	S2	Delta Futura	black	○
6106-	AIT	V0	8000	white	○
6106-125011	AIT	V1	Idea	white	●
6106-125022	AIT	V2	Idea	black	●
6106-125031	AIT	V3	Plana	white	●
6106-125043	AIT	V4	Eikon	silver	●
6106-	AIT	V5	Eikon	black	○
6106-	AIT	V6	Eikon	white	○
6106-	AIT	V7	Plana	grey	○

Civil series groups: AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7)

Available ●
Available on demand ○

TEMPERATURE SENSOR

STI Cod. 6100-131000

It measures the temperature of the room where it is installed. It is composed of an NTC sensor and is installed in a standard blank insert. It must be installed at 150/170 cm from the ground, in specific box away from heat sources or air draughts. Weight: 0.03 kg. Depth 35mm.

Installation

3-module box | Frame | STI | Plate
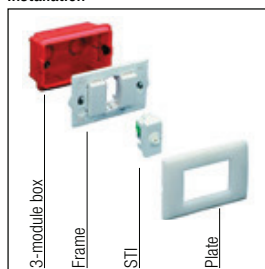
CODE	ITEM		CIVIL SERIES			AVAIL.
6101-131011	STI	A1	AVE	Blanc	white	●
6101-131022	STI	A2		Noir AX	black	●
6101-131031	STI	A3		Banquise	white	●
6101-131041	STI	A4		Domus 100	white	●
6101-	STI	A5		RAL	white	○
6101-131062	STI	A6		LIFE 44	black	●
6102-	STI	BT0	TICINO	Magic	white	○
6102-131012	STI	BT1		Living	black	●
6102-131022	STI	BT2		Living Intern.	black	●
6102-131031	STI	BT3		Light	white	●
6102-131041	STI	BT4		Luna	white	●
6102-131053	STI	BT5		Ligh-Tech	silver	●
6102-131061	STI	BT6		Matix	white	●
6102-131073	STI	BT7		Axolute	white	●
6102-131082	STI	BT8		Axolute	white	●
6103-	STI	G1	GEWISS	Playbus	white	○
6103-131022	STI	G2		Playbus	black	●
6103-131031	STI	G3		Chorus	white	●
6103-131043	STI	G4		Chorus	silver	●
6103-131052	STI	G5		Chorus	black	●
6103-131061	STI	G6		System 9000	white	●
6103-	STI	G7		System 9000	black	○
6104-	STI	L1	LEGRAND	Cross	white	○
6104-	STI	L2		Vela	black	○
6105-	STI	S1	SIEMENS	Delta Futura	white	○
6105-	STI	S2		Delta Futura	black	○
6106-	STI	V0	VIMAR	8000	white	○
6106-131011	STI	V1		Idea	white	●
6106-131022	STI	V2		Idea	black	●
6106-131031	STI	V3		Plana	white	●
6106-131043	STI	V4		Eikon	silver	●
6106-131052	STI	V5		Eikon	black	●
6106-131061	STI	V6		Eikon	white	●
6106-	STI	V7		Plana	grey	○

Available ●
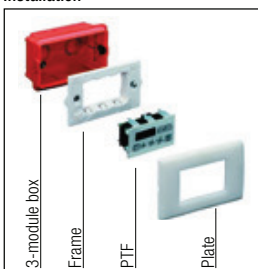Available on demand ○

FAN-COIL THERMOSTAT PANEL

PTF Cod. 6100-133000

It allows the guest to change temperature, speed, automatic or manual operation and switch off air conditioning. The display shows time, set and measured temperature values, speed, window status, and help call. The light sensor optimises contrast and luminous symbols provide information on operation status. The panel allows the staff to reset bathroom and flood alarms and set the "clean room" and "full mini-bar" conditions. It is housed in 3-module box and connected to the control unit with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth 45mm.

Installation

3-module box | Frame | PTF | Plate

CODE	ITEM		CIVIL SERIES			AVAIL.
6101-133011	PTF	A1	AVE	Blanc	white	●
6101-133022	PTF	A2		Noir AX	black	●
6101-133031	PTF	A3		Banquise	white	●
6101-133041	PTF	A4		Domus 100	white	●
6101-	PTF	A5		RAL	white	○
6101-133062	PTF	A6		LIFE 44	black	●
6102-	PTF	BT0	TICINO	Magic	white	○
6102-133012	PTF	BT1		Living	black	●
6102-133022	PTF	BT2		Living Intern.	black	●
6102-133031	PTF	BT3		Light	white	●
6102-133041	PTF	BT4		Luna	white	●
6102-133053	PTF	BT5		Ligh-Tech	silver	●
6102-133061	PTF	BT6		Matix	white	●
6102-133073	PTF	BT7		Axolute	white	●
6102-133082	PTF	BT8		Axolute	white	●
6103-	PTF	G1	GEWISS	Playbus	white	○
6103-133022	PTF	G2		Playbus	black	●
6103-133031	PTF	G3		Chorus	white	●
6103-133043	PTF	G4		Chorus	silver	●
6103-133052	PTF	G5		Chorus	black	●
6103-	PTF	G6		System 9000	white	○
6103-	PTF	G7		System 9000	black	○
6104-	PTF	L1	LEGRAND	Cross	white	○
6104-133022	PTF	L2		Vela	black	●
6105-	PTF	S1	SIEMENS	Delta Futura	white	○
6105-	PTF	S2		Delta Futura	black	○
6106-	PTF	V0	VIMAR	8000	white	○
6106-133011	PTF	V1		Idea	white	●
6106-133022	PTF	V2		Idea	black	●
6106-133031	PTF	V3		Plana	white	●
6106-133043	PTF	V4		Eikon	silver	●
6106-133052	PTF	V5		Eikon	black	●
6106-133061	PTF	V6		Eikon	white	●
6106-	PTF	V7		Plana	grey	○

Available ●
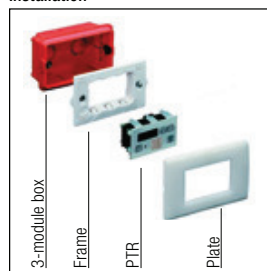Available on demand ○

RADIATOR THERMOSTAT PANEL

PTR Cod. 6100-135000

It allows the guest to change temperature, switch on and off the heating. The display shows time, set and measured temperature values, window status, and help call. The light sensor optimises contrast and luminous symbols provide information on operation status. The panel allows the staff to reset bathroom and flood alarms and set the "clean room" and "full mini-bar" conditions. It is housed in 3-module box and connected to the control unit with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth 45mm.

Installation

CODE	ITEM		CIVIL SERIES		AVAIL.
6101-135011	PTR	A1	Blanc	white	●
6101-135022	PTR	A2	Noir AX	black	●
6101-	PTR	A3	Banquise	white	○
6101-	PTR	A4	Domus 100	white	○
6101-	PTR	A5	RAL	white	○
6101-	PTR	A6	LIFE 44	black	○
6102-	PTR	BT0	Magic	white	○
6102-	PTR	BT1	Living	black	○
6102-135022	PTR	BT2	Living Intern.	black	●
6102-135031	PTR	BT3	Light	white	●
6102-	PTR	BT4	Luna	white	○
6102-135053	PTR	BT5	Ligh-Tech	silver	○
6102-135061	PTR	BT6	Matix	white	●
6102-	PTR	BT7	Axolute	white	○
6102-	PTR	BT8	Axolute	white	○
6103-	PTR	G1	Playbus	white	○
6103-135022	PTR	G2	Playbus	black	●
6103-	PTR	G3	Chorus	white	○
6103-	PTR	G4	Chorus	silver	○
6103-135052	PTR	G5	Chorus	black	●
6103-	PTR	G6	System 9000	white	○
6103-	PTR	G7	System 9000	black	○
6104-	PTR	L1	Cross	white	○
6104-	PTR	L2	Vela	black	○
6105-	PTR	S1	Delta Futura	white	○
6105-	PTR	S2	Delta Futura	black	○
6106-	PTR	V0	8000	white	○
6106-135011	PTR	V1	Idea	white	●
6106-135022	PTR	V2	Idea	black	●
6106-135031	PTR	V3	Plana	white	●
6106-	PTR	V4	Eikon	silver	○
6106-	PTR	V5	Eikon	black	○
6106-	PTR	V6	Eikon	white	○
6106-	PTR	V7	Plana	grey	○

Civil series groups: AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7)

Available ●
Available on demand ○

SUPERVISION AND CONTROL SOFTWARE

SWB Cod. 6600-300010

Extremely easy to use, with modern user-friendly graphics, it allows for complete management of rooms and common areas in terms of accesses, temperature, electric utilities activation, alarms, signalling, etc. Possibility of complex technological controls with dedicated software modules. It is provided with historical database to record and print all events (alarms, signalling messages, anomalies, accesses, etc.). It is prearranged for management of additional workstations and can be interfaced to most popular front-office PMS applications and air conditioning/heating systems.

ROOM MANAGEMENT SOFTWARE

SWG25   Room management software from 1 to 25 rooms   Cod. 6100-181025

SWG50   Room management software from 26 to 50 rooms   Cod. 6100-181050

SWG75   Room management software from 51 to 75 rooms   Cod. 6100-181075

SWG100   Room management software from 76 to 100 rooms   Cod. 6100-181100

SWG150   Room management software from 101 to 150 rooms   Cod. 6100-181150

SWG200   Room management software from 151 to 200 rooms   Cod. 6100-181200

SWG250   Room management software from 201 to 250 rooms   Cod. 6100-181250

SWG500   Room management software from 251 to 500 rooms   Cod. 6100-181500

SWG1000   Room management software from 501 to 1000 rooms   Cod. 6100-181999

SYSTEM OPERATION

MEGA is a distribuited logic system used to manage hotel functions. The system uses small peripheral units with logic and memory, installed in different locations (such as rooms, common areas, techical rooms, etc.) and connected to the supervision PC by means of two-wire BUS cable.

Since all parameters are saved in the room control unit, a temporary anomaly of the PC will not cause system malfunctioning.

Accesses, electricity, air-conditioning (with consequent energy saving) will continue on operating correctly.

New cards cannot be enabled and alarms cannot be displayed.

Data is transmitted according to RS 485 half duplex standard using a proprietary protocol developed by ITC srl to optimise transmission time and reduce equipment costs. Data is transmitted over balanced line, with suppression of most electromagnetic interference. The cable is a UTP CAT. 5 cable.

In special cases, such as outdoor installations, the use of an FTP screened cable with double protection sheath and earthed screen is recommended. The maximum length of the communication bus is one kilometre; an amplified signal splitter (PSA) can be used beyond such a distance for extra 1000 m. The room control unit (CPU) have been designed for installation in room unit with 12 modules (9 for CPU and 3 for transformer with 12Vac, 30VA power) for easy installation with DIN connection and easy maintenance. The CPUs are provided with removable connectors and telephone plugs for easier replacement.

The CPU code is set with a dip-switch for easy replacement in case of failure also by non-expert staff (by simply copying the position of the cursors from the unit to be replaced). When power supply is restored, the new CPU shows the code set in the internal display to check that it is correct. The leds associated with inputs and outputs allow for checking the status (close/open) for easy identification of faulty switches (window, door, frigo bar, etc.) or blocked electrovalves, without using an external device (multimeter).

The communication between CPU and PC can be controlled on the internal display, as well as communication between CPU and chip card or transponder reader.

All system anomalies are informed in real time to the operator:
- defective temperature sensors,
- truncated bathroom alarm cables,
- and malfunctioning CPUs.

IMPORTANT
The fact that some relays are piloted in inverted mode (powered relay -->deactivated output, not powered relay
-->activated output) guarantees electricity supply in the room and operation of the air-conditioning system at minimum speed also in case of failure of the CPU or the power supply transformer until the hotel maintenance operator replaces the faulty part.

A PC server can be installed to physically connect the bus and multiple client PCs connected in network to the server PC, with full system operation from each PC.

The 220Vac power supply line must be dedicated and provided with UPS of on-line type to guarantee system operation in case of power cut from 220Vac mains and to filter electromagnetic interference from the line.

Recommendations: an independent transformer should be used for every peripheral unit (CRU) for two reasons:
- a possible transformer fault will affect only one unit/room, and not all the units connected to it,
- possible electromagnetic interference of a specific unit are localised and are not transmitted to the rest of the installation through the power supply.
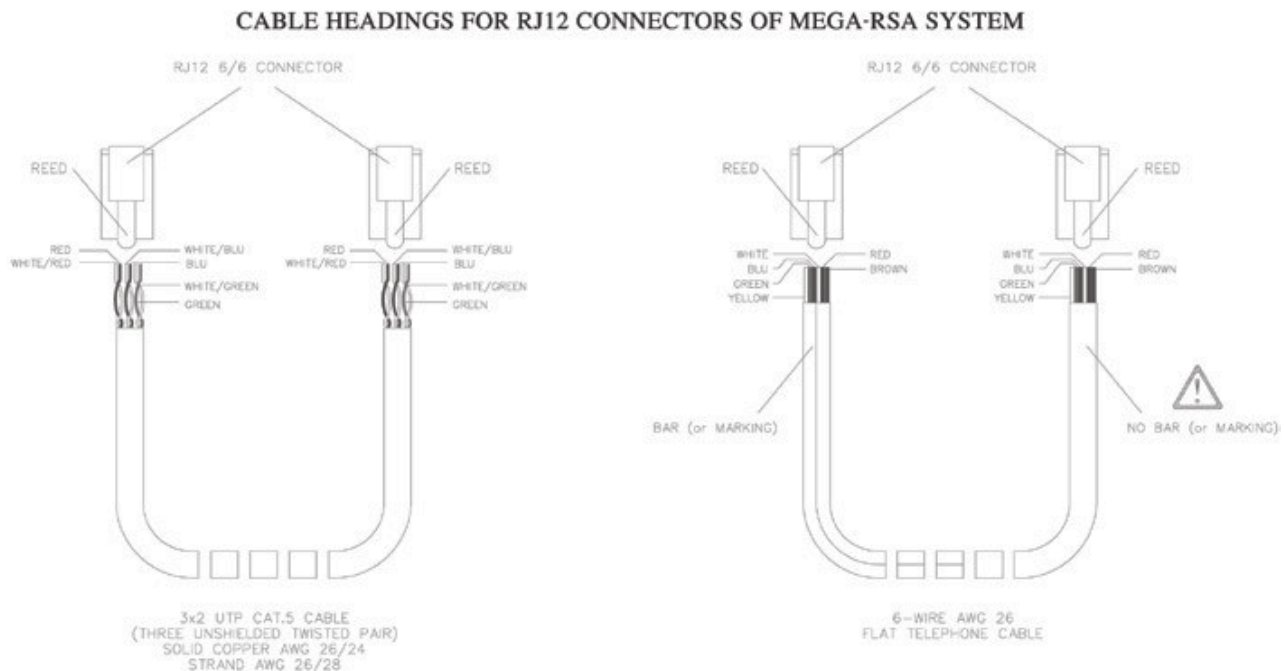
System technological upgrade:
Since the microprocessor in the Mega control unit is of flash type (i.e. reprogrammable), all existing installations can be upgraded with the latest firmware version to manage the new functions.

Existing installations can be upgraded with minimal time and cost investment as if they were brand new.

IMPORTANT NOTICE

- The Mega control unit is mounted in DIN bar and takes 9 modules. It must be powered at 12Vac with 30VA transformer. An independent transformer must be used for each control unit and connected to a dedicated electrical line with on-line UPS.

- **Always disconnect power supply before making electrical connections.**

- Temperature sensors must be installed in dedicated boxes, at about 1.5 m from the floor, in a place protected from sunlight and away from air draughts or heat sources (such as doors, windows, perimeter walls, etc.). Do not install them above the thermostat panel, since it generates heat.

- The connection cables of the input devices (such as temperature sensors, magnetic contacts, buttons, etc.) must not exceed 20 m in length.

- The fan-coil and towel warmer valves can only be of ON/OFF type (electrothermal or motorised open/close valves). It is recommended to use valve controls at 220Vac voltage. The electrothermal model must be of NC type, i.e. with control mounted on the valve and not powered, the water flow must be blocked.

- The radiator valve is alternative to the fan-coil. It is not possible to install both components in the same room installation. It can be of ON/OFF type, modulating motorised or modulating linear, piloted with continuous voltage 0-10V.

- The room teleruptor must be at 220VAc. An additional transformer must be installed for components with different voltage.

- Use a good-quality crimping tool to crimp PLUG connectors and check them with cable tester. The cable length must not exceed 15 metres. In case of multiple readers connected in cascade the length of each section must be added, without exceeding the said limit.

- We recommend installing a 1.6A delayed fuse between relay output contact and load to protect the board in case of actuator failure.

- Auxiliary relays must be used to close electrical shutters, possibly in combination with suitably Dimensionsd protection fuses. The shutter motor must not be connected directly to the relay of the Mega control unit.

- **We recommend keeping signal lines (data bus, inputs, etc.) separate from power lines.**

- The minimum requirements of the PC used to control the installation are as follows:
  - Pentium IV 2.8GHz CPU
  - 160 GB hard disk
  - 1 GB Ram
  - S-VGA colour monitor
  - 1 serial port (second port recommended as spare),
  - 2 USB ports
  - Fast Ethernet 10/100 Mbps network board
  - Mouse and keyboard
  - Audio board and speakers
  - Operating system: Windows XP professional or Windows 7 32bit.

- **For correct operation the PC must be always on and must be dedicated to the I.T.C. technological management system.**

- The control software works at 800x600 pixel resolution.
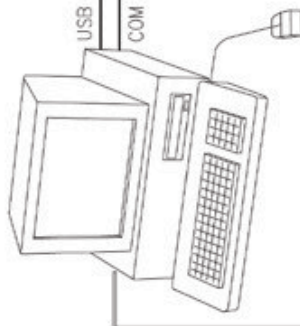
CABLE CRIMPING DIAGRAM

CABLE HEADINGS FOR RJ12 CONNECTORS OF MEGA-RSA SYSTEM

BUS AND POWER SUPPLY CONNECTION DIAGRAM

MEGA

MULTI-WIRE ROOM DIAGRAM

GENERAL DIAGRAM

MEGA-M GENERAL FEATURES

The Mega-M Systems is used for the centralised management of hotel technological functions to improve client comfort, increase safety and reduce energy costs.

The PC-based supervision central station communicates over a bus with the control units installed in the rooms, which are provided with independent intelligence to manage the controlled processes also without communication with the central station.

Easy-to-use intuitive software controls the following functions:

- **Access Control:**
  The access to rooms and/or common areas by guests and staff is permitted by means of chip card or transponder readers, with access recording in data base.

- **Safety:**
  Bathroom, flood, technological and intrusion alarms can be detected, also using volumetric motion sensors. All events are recorded.

- **Room status:**
  The system informs in real time if the room is free, in use, in need of cleaning or with mini-bar to check.

- **Energy saving:**
  The activation of energy supply in the rooms is related to the guest's presence.

- **Technological controls:**
  The system can detect statuses and alarms from the heating station or other technological rooms.
  It can also activate lights, control pumps and actuators.

- **Diagnostics:**
  System anomalies are promptly detected and signalled to operators.

- **Administration:**
  The system can be interfaced with the most common software applications for hotel administrations (PMS).

Room control unit:
UGC-M

Room activator:
AS/AIC-M

or

Chip card reader:
LCC-M

Proximity card reader:
LTC-M
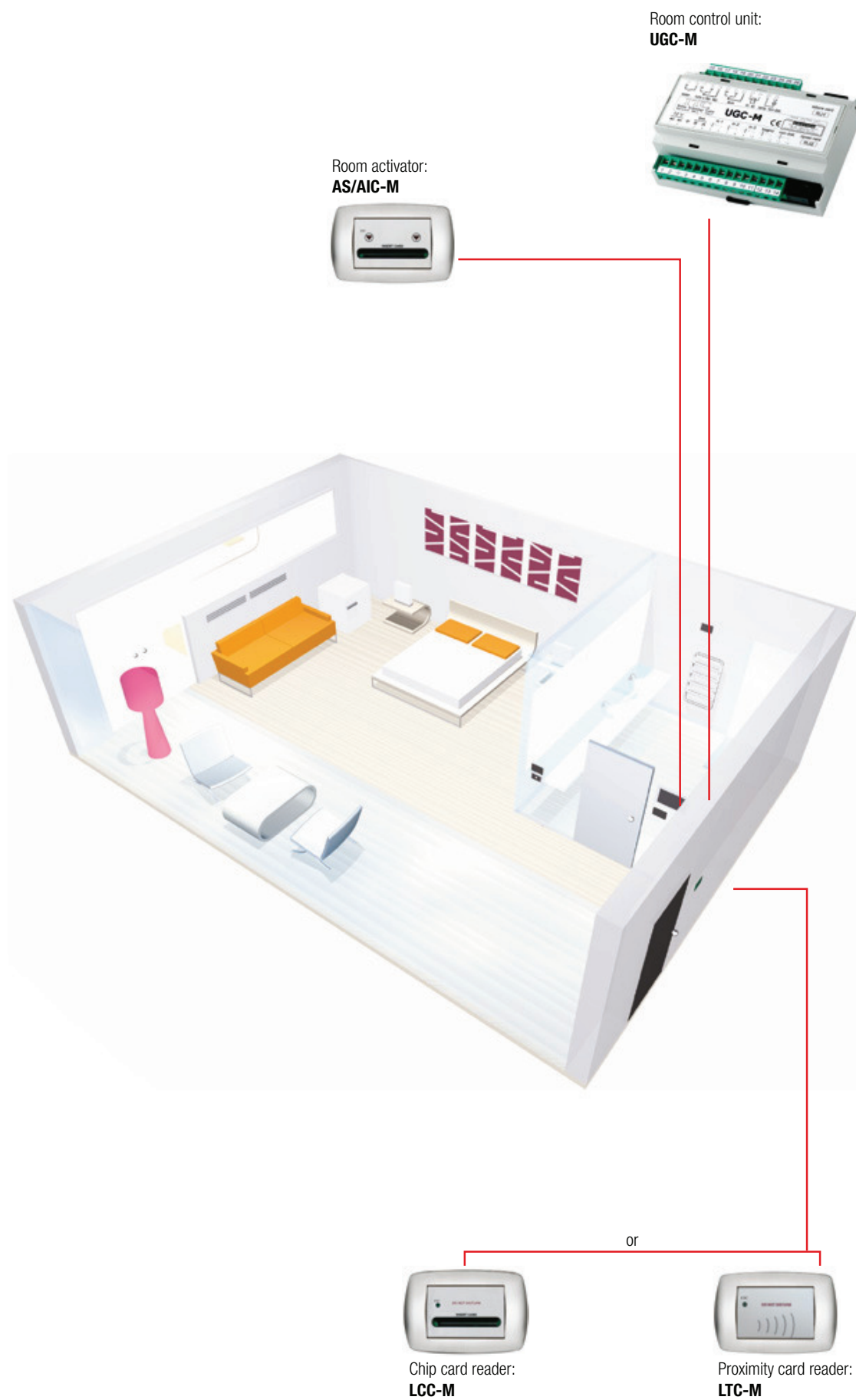
ROOM CONTROL UNIT

UGC-M   Cod. 6200-101010

The UGC-M control unit is housed in a 6-module box for DIN rail and is provided with the following inputs:
- RJ45 8/8 PLUG connector for chip card or proximity card reader,
- RJ12 6/6 PLUG connector for badge or jack room activator;
- bathroom cord, flood sensor,
- digital input for "do not disturb" button,
- 3 programmable digital inputs for:
    - window switch (NC or NO),
    - courtesy light button (NO),
    - door opening button from bed headboard (NO),
    - switch,
    - timed button (NO),
    - infrared or dual-technology intrusion sensor (NC or NO),
    - reset button to reset one or more of the following signallings:
       bathroom or flood alarm, room to clean, mini-bar to check.

It is provided with 3 relay outputs with voltage-free contacts for 230Vac – 4(2) A loads to control:
- courtesy light switching-on or shutter opening,
- room electricity contactor,
- programmable AUX output for activation of one of the following devices:
    - electric shutter closing,
    - water valve closing in case of flood,
    - ON/OFF controls or with software clock,
    - timed activation with button.

A 12Vdc, max 1.2A voltage output for door lock activation and a SCR output for power supply of "do not disturb" luminons button are also available. All connectors are removable with 5.08 pitch. Data is transmitted over 2-wire UTP CAT.5 bus cable, RS 485 standard, with flashing led to check the correct communication between PC and units. Re-programmable microcontroller of flash type. 12Vac, 30VA power supply. Dimensions: 106x100x60 mm. Weight: 0.30 kg.

CHIP CARD READER WITH SYNOPTIC

LCC-M   Cod. 6200-111000

It provides access to the room in different mode for guests, managers, staff, maintenance operators, etc. It is provided with illuminated insertion slot for chip card with ISO 7816 format and led for card validity and room status (free/in use) indication. It is also provided with "do not disturb" luminous signal that can be activated by the guest in the room. It is housed in 3-module box and connected to the UGC-M control unit with 8-wire cable terminated with RJ45 PLUG. Weight: 0.10 Kg. Depth 53mm.

Installation

3-module box   Frame   LCC-M   Plate
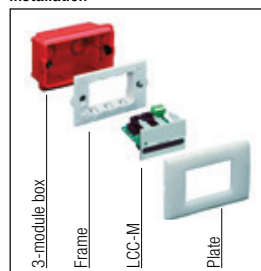
CODE	ITEM		CIVIL SERIES		AVAIL.
6201-111011	LCC-M	A1		Blanc	white	●
6201-111022	LCC-M	A2		Noir AX	black	●
6201-	LCC-M	A3		Banquise	white	○
6201-	LCC-M	A4	AVE	Domus 100	white	○
6201-	LCC-M	A5		RAL	white	○
6201-	LCC-M	A6		LIFE 44	black	○
6202-	LCC-M	BT0		Magic	white	○
6202-	LCC-M	BT1		Living	black	○
6202-111022	LCC-M	BT2		Living Intern.	black	●
6202-111031	LCC-M	BT3		Light	white	●
6202-111041	LCC-M	BT4	TICINO	Luna	white	●
6202-111053	LCC-M	BT5		Ligh-Tech	silver	●
6202-111061	LCC-M	BT6		Matix	white	●
6202-	LCC-M	BT7		Axolute	white	○
6202-	LCC-M	BT8		Axolute	white	○
6203-	LCC-M	G1		Playbus	white	○
6203-111022	LCC-M	G2		Playbus	black	●
6203-	LCC-M	G3		Chorus	white	○
6203-	LCC-M	G4	GEWISS	Chorus	silver	○
6203-	LCC-M	G5		Chorus	black	○
6203-111061	LCC-M	G6		System 9000	white	●
6203-	LCC-M	G7		System 9000	black	○
6204-	LCC-M	L1	LEGRAND	Cross	white	○
6204-	LCC-M	L2		Vela	black	○
6205-	LCC-M	S1	SIEMENS	Delta Futura	white	○
6205-	LCC-M	S2		Delta Futura	black	○
6206-	LCC-M	V0		8000	white	○
6206-111011	LCC-M	V1		Idea	white	●
6206-111022	LCC-M	V2		Idea	black	●
6206-111031	LCC-M	V3	VIMAR	Plana	white	●
6206-	LCC-M	V4		Eikon	silver	○
6206-	LCC-M	V5		Eikon	black	○
6206-	LCC-M	V6		Eikon	white	○
6207-	LCC-M	V7		Plana	grey	○

Available ●
Available on demand ○

PROXIMITY CARD READER WITH SYNOPTIC

LTC-M Cod. 6200-113000

It provides access to the room with proximity cards ISO 7816 format in different mode for guests, managers, staff, maintenance operators, etc. Max. reading distance 5 cm. It is provided with LED for card validity and room status (free/in use) indication. It is also provided with "do not disturb" luminous signal that can be activated by the guest in the room. It is housed in 3-module box and connected to the UGC-M control unit with 8-wire cable terminated with RJ45 PLUG. Weight: 0.10 Kg. Depth 53mm.

Installation
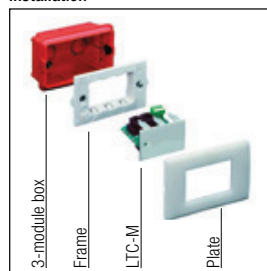
CODE	ITEM		CIVIL SERIES		AVAIL.
6201-113011	LTC-M	A1	Blanc	white	●
6201-	LTC-M	A2	Noir AX	black	○
6201-	LTC-M	A3	Banquise	white	○
6201-	LTC-M	A4	AVE Domus 100	white	○
6201-	LTC-M	A5	RAL	white	○
6201-	LTC-M	A6	LIFE 44	black	○
6202-	LTC-M	BT0	Magic	white	○
6202-	LTC-M	BT1	Living	black	○
6202-113022	LTC-M	BT2	Living Intern.	black	●
6202-113031	LTC-M	BT3	Light	white	●
6202-	LTC-M	BT4	TICINO Luna	white	○
6202-	LTC-M	BT5	Ligh-Tech	silver	○
6202-	LTC-M	BT6	Matix	white	○
6202-	LTC-M	BT7	Axolute	white	○
6202-	LTC-M	BT8	Axolute	white	○
6203-	LTC-M	G1	Playbus	white	○
6203-113022	LTC-M	G2	Playbus	black	●
6203-113031	LTC-M	G3	Chorus	white	●
6203-	LTC-M	G4	GEWISS Chorus	silver	○
6203-	LTC-M	G5	Chorus	black	○
6203-	LTC-M	G6	System 9000	white	○
6203-113072	LTC-M	G7	System 9000	black	●
6204-	LTC-M	L1	LEGRAND Cross	white	○
6204-	LTC-M	L2	Vela	black	○
6205-	LTC-M	S1	SIEMENS Delta Futura	white	○
6205-	LTC-M	S2	Delta Futura	black	○
6206-	LTC-M	V0	8000	white	○
6206-	LTC-M	V1	Idea	white	○
6206-113022	LTC-M	V2	Idea	black	●
6206-113031	LTC-M	V3	VIMAR Plana	white	●
6206-	LTC-M	V4	Eikon	silver	○
6206-	LTC-M	V5	Eikon	black	○
6206-	LTC-M	V6	Eikon	white	○
6206-	LTC-M	V7	Plana	grey	○

Available ●
Available on demand ○

ROOM ACTIVATOR SIMPLE TYPE

AS Cod. 6200-121000

It detects the presence of guests or staff int he room and activates room services. It is provided with illuminated slot for ISO 7816 cards and two flashing leds for easier insertion. It is housed in 3-module box and connected to the UGC-M control unit by means of 6-wire cable terminated with RJ12 PLUG. Weight: 0.10 Kg. Depth 44mm.

Installation

CODE	ITEM		CIVIL SERIES		AVAIL.
6101-121011	AS	A1	Blanc	white	●
6101-121022	AS	A2	Noir AX	black	●
6101-121031	AS	A3	Banquise	white	●
6101-121041	AS	A4	AVE Domus 100	white	●
6101-	AS	A5	RAL	white	○
6101-121062	AS	A6	LIFE 44	black	●
6102-	AS	BT0	Magic	white	○
6102-	AS	BT1	Living	black	○
6102-121022	AS	BT2	Living Intern.	black	●
6102-121031	AS	BT3	Light	white	●
6102-121041	AS	BT4	TICINO Luna	white	●
6102-121053	AS	BT5	Ligh-Tech	silver	●
6102-121061	AS	BT6	Matix	white	●
6102-121073	AS	BT7	Axolute	white	●
6102-121082	AS	BT8	Axolute	white	●
6103-	AS	G1	Playbus	white	○
6103-121022	AS	G2	Playbus	black	●
6103-121031	AS	G3	Chorus	white	●
6103-	AS	G4	GEWISS Chorus	silver	○
6103-121052	AS	G5	Chorus	black	●
6103-	AS	G6	System 9000	white	○
6103-121072	AS	G7	System 9000	black	●
6104-	AS	L1	LEGRAND Cross	bianca	○
6104-121022	AS	L2	Vela	black	●
6105-	AS	S1	SIEMENS Delta Futura	white	○
6105-	AS	S2	Delta Futura	black	○
6106-	AS	V0	8000	white	○
6106-121011	AS	V1	Idea	white	●
6106-121022	AS	V2	Idea	black	●
6106-121031	AS	V3	VIMAR Plana	white	●
6106-121043	AS	V4	Eikon	silver	●
6106-121052	AS	V5	Eikon	black	●
6106-	AS	V6	Eikon	white	○
6106-	AS	V7	Plana	grey	○

Available ●
Available on demand ○

INTELLIGENT ROOM ACTIVATOR FOR CHIP CARD

**AIC-M**   Cod. 6200-123000

It detects the presence of guests or staff int he room by reading the inserted chip and activates room services only if the card is enabled. It is provided with illuminated slot for ISO 7816 cards and two flashing leds for easier insertion. It is housed in 3-module box and ocnnected to the UGC-M control unit by means of 6-wire cable terminated with RJ12 PLUG. Weight: 0.10 Kg. Depth 44mm.

Installation

3-module box — Frame — AIC-M — Plate
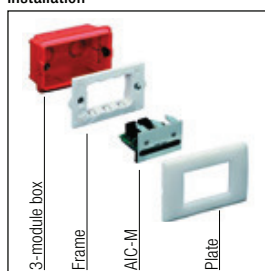
CODE	ITEM		CIVIL SERIES		AVAIL.
6201-	AIC-M	A1		Blanc	white	○
6201-	AIC-M	A2		Noir AX	black	○
6201-	AIC-M	A3	AVE	Banquise	white	○
6201-	AIC-M	A4		Domus 100	white	○
6201-	AIC-M	A5		RAL	white	○
6201-	AIC-M	A6		LIFE 44	black	○
6202-	AIC-M	BT0		Magic	white	○
6202-	AIC-M	BT1		Living	black	○
6202-123022	AIC-M	BT2		Living Intern.	black	●
6202-123031	AIC-M	BT3		Light	white	●
6202-	AIC-M	BT4	TICINO	Luna	white	○
6202-	AIC-M	BT5		Ligh-Tech	silver	○
6202-	AIC-M	BT6		Matix	white	○
6202-	AIC-M	BT7		Axolute	white	○
6202-	AIC-M	BT8		Axolute	white	○
6203-	AIC-M	G1		Playbus	white	○
6203-	AIC-M	G2		Playbus	black	○
6203-	AIC-M	G3		Chorus	white	○
6203-	AIC-M	G4	GEWISS	Chorus	silver	○
6203-	AIC-M	G5		Chorus	black	○
6203-123061	AIC-M	G6		System 9000	white	●
6203-	AIC-M	G7		System 9000	black	○
6204-	AIC-M	L1	LEGRAND	Cross	white	○
6204-	AIC-M	L2		Vela	black	○
6205-	AIC-M	S1	SIEMENS	Delta Futura	white	○
6205-	AIC-M	S2		Delta Futura	black	○
6206-	AIC-M	V0		8000	white	○
6206-	AIC-M	V1		Idea	white	○
6206-	AIC-M	V2		Idea	black	○
6206-123031	AIC-M	V3	VIMAR	Plana	white	●
6206-	AIC-M	V4		Eikon	silver	○
6206-	AIC-M	V5		Eikon	black	○
6206-	AIC-M	V6		Eikon	white	○
6206-	AIC-M	V7		Plana	grey	○

Available ●
Available on demand ○

SUPERVISION AND CONTROL SOFTWARE

SWB   Cod. 6600-300010

Extremely easy to use, with modern user-friendly graphics, it allows for complete management of rooms and common areas in terms of accesses, temperature, electric utilities activation, alarms, signalling, etc. Possibility of complex technological controls with dedicated software modules. It is provided with historical database to record and print all events (alarms, signalling messages, anomalies, accesses, etc.). It is prearranged for management of additional workstations and can be interfaced to most popular front-office PMS programmes.

ROOM MANAGEMENT SOFTWARE

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software from 1 to 25 rooms

SWG-M50   MEGA-M room management   Cod. 6200-181050
software from 26 to 50 rooms

SWG-M75   MEGA-M room management   Cod. 6200-181075
software from 51 to 75 rooms

SWG-M100   MEGA-M room management   Cod. 6200-181100
software from 76 to 100 rooms

SWG-M150   MEGA-M room management   Cod. 6200-181150
software from 101 to 150 rooms

SWG-M200   MEGA-M room management   Cod. 6200-181200
software from 151 to 200 rooms

SWG-M250   MEGA-M room management   Cod. 6200-181250
software from 201 to 250 rooms

SWG-M500   MEGA-M room management   Cod. 6200-181500
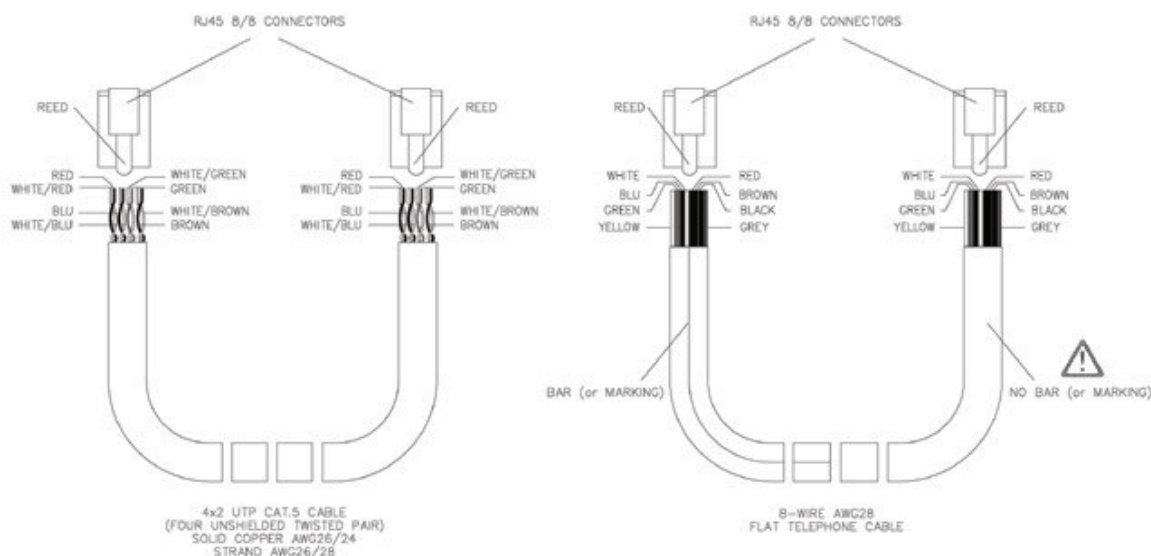software from 251 to 500 rooms

SWG-M1000   MEGA-M room management   Cod. 6200-181999
software from 501 to 1000 rooms

IMPORTANT NOTICE

- The UGC-M control unit is mounted in DIN rail and takes 6 modules. It must be powered at 12Vac with 30VA transformer, which takes 3 additional modules. An independent transformer must be used for each control unit and must be connected to dedicated electrical line with on-line UPS.
- Always disconnect power supply before making electrical connections.
- Connection cables of input devices (i.e. magnetic contacts, buttons, etc.) must not exceed 20 metres in length.
- Room teleruptor must be at 230Vac. Additional transformers must be installed for components with different voltage.
- Use a good-quality crimping tool to crimp RJ45 and RJ12 PLUG connectors and check them with cable tester. The length of the cable must not exceed 15 m for art. AS, AJ and AIC-M; it must not exceed 4 m for items LCC-M and LTC-M.
- We recommend installing a 1.6A delayed fuse between relay output contact and load to protect the board in case of actuator failure.
- Auxiliary relays must be used to close electrical shutters, possibly in combination with suitably dimensioned protection fuses. The shutter motor must not be connected directly to the UGC-M relay.

- We recommend keeping signal lines (data BUS, inputs, etc.) separate from power lines.
- The minimum requirements of the PC used to control the installation are as follows:
  . Pentium IV 2.8GHz CPU
  . 160 GB hard disk,
  . 1 GB Ram,
  . S-VGA colour monitor
  . 1 serial port (second port recommended as spare),
  . 2 USB ports,
  . Fast Ethernet 10/100 Mbps network board
  . Mouse and keyboard,
  . Audio board and speakers,
  . Operating system: Windows XP professional or Windows 7 32bit.
- For correct operation the PC must be always on and must be dedicated to the MEGA-M technological management system.
- The control software works at 800x600 pixel resolution.
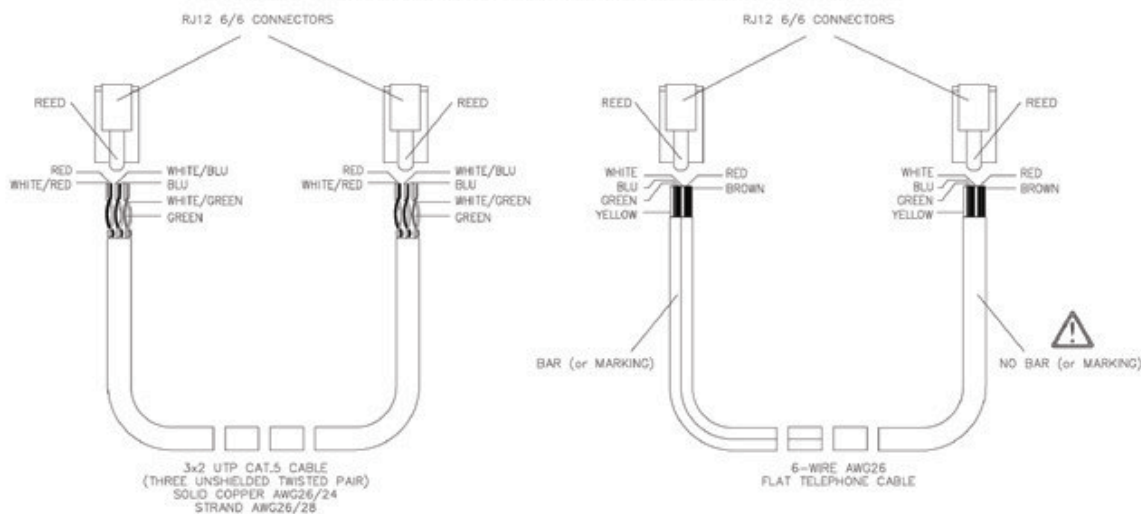
CABLE CRIMPING DIAGRAM

BUS AND POWER SUPPLY CONNECTION DIAGRAM

MULTI-WIRE ROOM DIAGRAM

MEGA-RSA GENERAL FEATURES

Type

Management and control system of main functions in nursing homes, health facilities and hospitals of any size.

The user-friendly software allows for managing bed headboard and bathroom alarms, bi-directional handsfree communication between staff and patients, air conditioning/heating, access control, as well as the main technological functions of the structure.

It can be interfaced with PBX telephone systems to send alarm signalling messages to cordless telephones.

Features

The system is designed to control calls from patient rooms and bathroom alarms. The integrated audio system provides full-duplex handsfree communication with the patients. The control station includes a PC, a desktop microphone unit and a speaker.

Local reset function, luminous door repetition of alarm/call events, with event recording and printing. The use of dedicated technological control units makes it possible to switch on luminous guides in corridors to indicate the origin of alarms/calls.

System components

- One dedicated computer (not supplied by I.T.C.) with Windows XP professional or Windows 7 32bit operating system,
- RS232/RS485 signal converter,
- Signal splitters,
- One MEGA-H control unit for each room (or one control unit every 2 rooms),
- Call buttons and pull cords (not supplied by I.T.C.),
- Sockets and coded jacks for local reset,
- One high-sensitivity microphone for each room (3-4 m range) for 3-module flush mounting box,
- One recessed speaker in each room,
- One temperature sensor in each room,
- One thermostat panel in each room,
- One desktop microphone unit and one speaker for control station,
- Power supply units for microphones and speakers,
- One UGT control unit for every 8 common bathrooms, with possibility of alarm luminous repetition on door and reset from PC only. Optional terminal for connection of 16 bathroom cords for every control unit, with alarm identification from PC only.
- One UGT control unit every 8 luminous guides,
- Lamps, gems, transformers, etc. to complete the installation (not supplied by I.T.C.).
- PBX telephone system (not supplied by I.T.C.),
- Fixed telephones (not supplied by I.T.C.),
- Cordless telephones (not supplied by I.T.C.).

Functions

- Bathroom and bed headboard alarm detection, with switch on of door light and reassuring light,
- Local reset (with coded jack) or from operator station.
- Full-duplex handsfree communication with patient, with activation from operator station,
- Detection of alarms from common bathrooms,
- Recording and printing of alarm and reset events,
- Constant control of system anomalies, with anomaly recording and printing,
- Luminous guides in corridors,
- Possibility to connect a unit for alarm/call message repetition.

In case of installations in nursing homes, in addition to the PC the control station is also equipped with a station for bidirectional communication with patient. This station includes one microphone, one speaker and one amplified power supply. In case of bed headboard call, the door light signal switches on and the visual/sound signal is activated on the PC, with identification of calling room. The nurse can activate the bidirectional communication with the patient and then reset the alarm directly from the PC. If direct intervention is necessary in the room, the alarm can be reset by inserting a coded jack in the socket. In case of call from other rooms (bathrooms, changing rooms, etc.) the operation is the same, except for handsfree communication. The system can also manage the switch-on of luminous arrows installed along the corridors that guide the staff to the room where the call is originated.

Recessed speaker:
DCP2017/H

Recessed microphone:
MI503

Recessed microphone:
MI503

Recessed speaker:
DCP2017/H

Room control unit:
UGC-H

Luminous signals:
BATHROOM ALARM
BED HEADBOARD ALARM
NURSE PRESENCE
DOCTOR PRESENCE

Fan coil thermostat panel:
PTF

or

Radiator thermostat panel:
PTR

Temperature sensor:
STI

Jack socket for alarm reset:
PRL
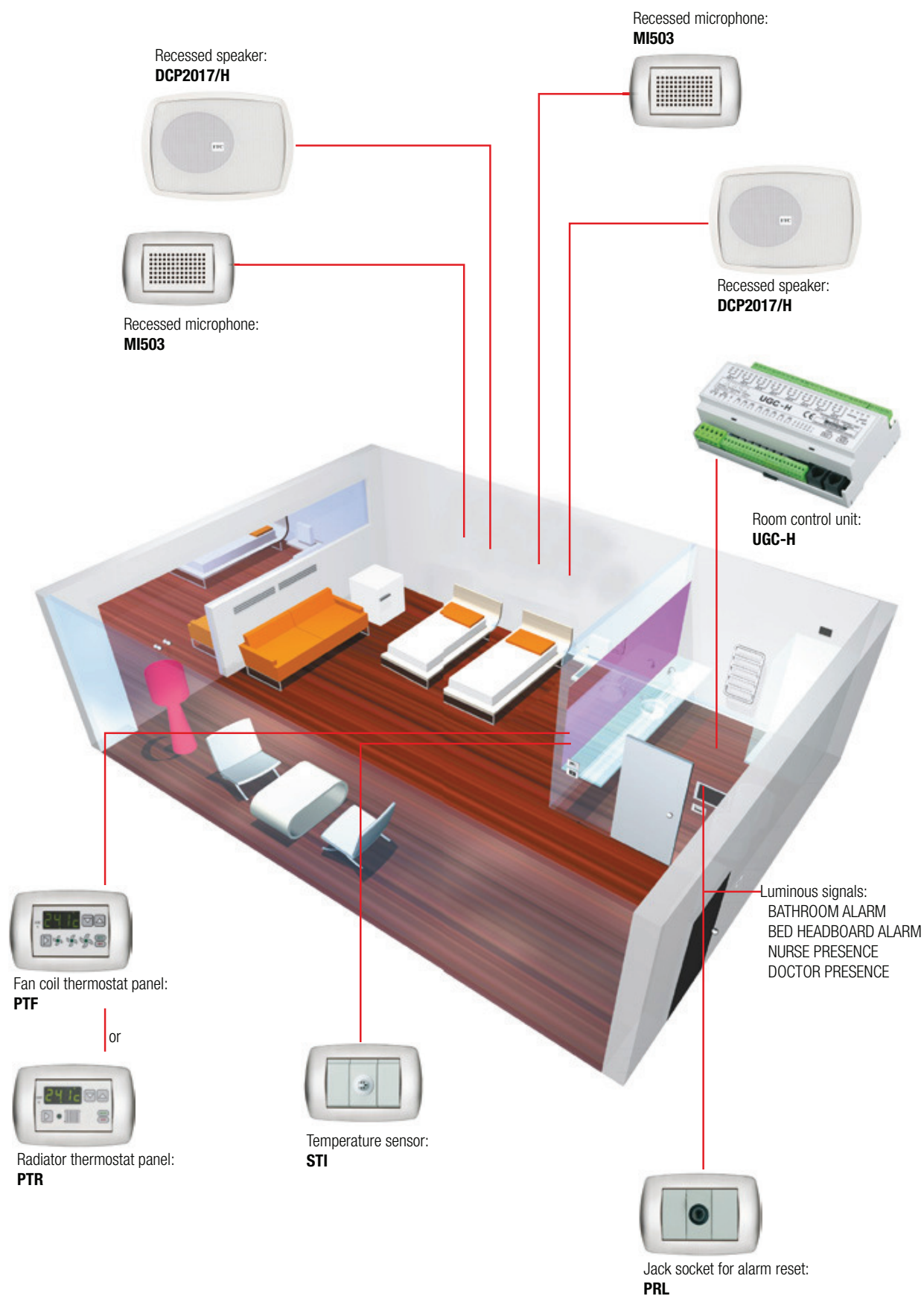
ROOM CONTROL UNIT

UGC-H   Cod. 6300-101010

The UGC-H control unit is housed in 9-module box for DIN rail. It is provided with 8 analog and 4 digital inputs for connection of following devices:
- "STI" temperature sensors,
- NO or NC type alarm/anomaly contacts,
- buttons,
- bathroom pull cords for help call.

It is also provided with socket for PTF/PTR panel (max. 1) and 8 relay outputs with voltage free contacts for loads at 230Vac - 4(2)A.

Data transmission over 2-wire UTP CAT.5 bus cable in RS 485 standard.

Reprogrammable microcontroller of flash type, 12Vac, 15VA power supply.

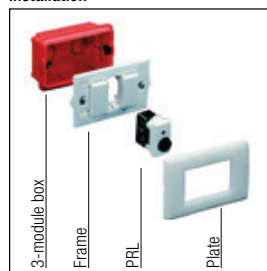Dimensions: 160x100x60 mm.

Weight: 0.50 kg.

SOCKET FOR LOCAL RESET

PRL   Cod. 6300-141000

Socket for local alarm reset by means of coded jack for identification of operator with display, recording, storing and printing of events.
Weight: 0.03 kg. Depth 46mm.

Installation

3-module box | Frame | PRL | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
6301-141011	PRL	A1	Blanc	white	●
6301-141022	PRL	A2	Noir AX	black	●
6301-	PRL	A3	Banquise	white	○
6301-	PRL	A4	Domus 100	white	○
6301-	PRL	A5	RAL	white	○
6301-	PRL	A6	LIFE 44	black	○
6302-	PRL	BT0	Magic	white	○
6302-	PRL	BT1	Living	black	○
6302-	PRL	BT2	Living Intern.	black	○
6302-141031	PRL	BT3	Light	white	●
6302-	PRL	BT4	Luna	white	○
6302-	PRL	BT5	Ligh-Tech	silver	○
6302-141061	PRL	BT6	Matix	white	●
6302-	PRL	BT7	Axolute	white	○
6302-	PRL	BT8	Axolute	white	○
6303-	PRL	G1	Playbus	white	○
6303-	PRL	G2	Playbus	black	○
6303-	PRL	G3	Chorus	white	○
6303-	PRL	G4	Chorus	silver	○
6303-	PRL	G5	Chorus	black	○
6303-	PRL	G6	System 9000	white	○
6303-	PRL	G7	System 9000	black	○
6304-	PRL	L1	Cross	white	○
6304-	PRL	L2	Vela	black	○
6305-	PRL	S1	Delta Futura	white	○
6305-	PRL	S2	Delta Futura	black	○
6306-	PRL	V0	8000	white	○
6306-	PRL	V1	Idea	white	○
6306-	PRL	V2	Idea	black	○
6306-141031	PRL	V3	Plana	white	●
6306-	PRL	V4	Eikon	silver	○
6306-131052	PRL	V5	Eikon	black	●
6306-	PRL	V6	Eikon	white	○
6306-	PRL	V7	Plana	grey	○

Civil series brands (left table): AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7).

Available ●
Available on demand ○

TEMPERATURE SENSOR

STI   Cod. 6100-131000

It measures the temperature of the room where it is installed. It is composed of an NTC sensor and is installed in a standard blank insert. It must be installed at 150/170 cm from the ground, in specific box away from heat sources or air draughts. Weight: 0.03 kg. Depth 35mm.

Installation

3-module box | Frame | STI | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
6101-131011	STI	A1	Blanc	white	●
6101-131022	STI	A2	Noir AX	black	●
6101-131031	STI	A3	Banquise	white	●
6101-131041	STI	A4	Domus 100	white	●
6101-	STI	A5	RAL	white	○
6101-131062	STI	A6	LIFE 44	black	●
6102-	STI	BT0	Magic	white	○
6102-131012	STI	BT1	Living	black	●
6102-131022	STI	BT2	Living Intern.	black	●
6102-131031	STI	BT3	Light	white	●
6102-131041	STI	BT4	Luna	white	●
6102-131053	STI	BT5	Ligh-Tech	silver	●
6102-131061	STI	BT6	Matix	white	●
6102-131073	STI	BT7	Axolute	white	●
6102-131082	STI	BT8	Axolute	white	●
6103-	STI	G1	Playbus	white	○
6103-131022	STI	G2	Playbus	black	●
6103-131031	STI	G3	Chorus	white	●
6103-131043	STI	G4	Chorus	silver	●
6103-131052	STI	G5	Chorus	black	●
6103-131061	STI	G6	System 9000	white	●
6103-	STI	G7	System 9000	black	○
6104-	STI	L1	Cross	white	○
6104-	STI	L2	Vela	black	○
6105-	STI	S1	Delta Futura	white	○
6105-	STI	S2	Delta Futura	black	○
6106-	STI	V0	8000	white	○
6106-131011	STI	V1	Idea	white	●
6106-131022	STI	V2	Idea	black	●
6106-131031	STI	V3	Plana	white	●
6106-131043	STI	V4	Eikon	silver	●
6106-131052	STI	V5	Eikon	black	●
6106-131061	STI	V6	Eikon	white	●
6106-	STI	V7	Plana	grey	○

Civil series brands (right table): AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7).

Available ●
Available on demand ○

FAN-COIL THERMOSTAT PANEL

PTF   Cod. 6100-133000

It allows the guest to change temperature, speed, automatic or manual operation and switch off air conditioning. The display shows time, set and measured temperature and speed. The light sensor optimises contrast and luminous symbols give information on operation status. It is housed in 3-module box and connected to the control unit by means of 6-wire cable terminated with RJ12 PLUG. Weight: 0.10 kg. Depth 45mm.

Installation

3-module box — Frame — PTF — Plate

CODE	ITEM		CIVIL SERIES			AVAIL.
6101-133011	PTF	A1	AVE	Blanc	white	●
6101-133022	PTF	A2		Noir AX	black	●
6101-133031	PTF	A3		Banquise	white	●
6101-133041	PTF	A4		Domus 100	white	●
6101-	PTF	A5		RAL	white	○
6101-133062	PTF	A6		LIFE 44	black	●
6102-	PTF	BT0	TICINO	Magic	white	○
6102-133012	PTF	BT1		Living	black	●
6102-133022	PTF	BT2		Living Intern.	black	●
6102-133031	PTF	BT3		Light	white	●
6102-133041	PTF	BT4		Luna	white	●
6102-133053	PTF	BT5		Ligh-Tech	silver	●
6102-133061	PTF	BT6		Matix	white	●
6102-133073	PTF	BT7		Axolute	white	●
6102-133082	PTF	BT8		Axolute	white	●
6103-	PTF	G1	GEWISS	Playbus	white	○
6103-133022	PTF	G2		Playbus	black	●
6103-133031	PTF	G3		Chorus	white	●
6103-133043	PTF	G4		Chorus	silver	●
6103-133052	PTF	G5		Chorus	black	●
6103-	PTF	G6		System 9000	white	○
6103-	PTF	G7		System 9000	black	○
6104-	PTF	L1	LEGRAND	Cross	white	○
6104-133022	PTF	L2		Vela	black	●
6105-	PTF	S1	SIEMENS	Delta Futura	white	○
6105-	PTF	S2		Delta Futura	black	○
6106-	PTF	V0	VIMAR	8000	white	○
6106-133011	PTF	V1		Idea	white	●
6106-133022	PTF	V2		Idea	black	●
6106-133031	PTF	V3		Plana	white	●
6106-133043	PTF	V4		Eikon	silver	●
6106-133052	PTF	V5		Eikon	black	●
6106-133061	PTF	V6		Eikon	white	●
6106-	PTF	V7		Plana	grey	○

Available ●
Available on demand ○

RADIATOR THERMOSTAT PANEL

PTR   Cod. 6100-135000

It allows the guest to change temperature, switch on and off the heating. The display shows time and set and measured temperature. The light sensor optimises contrast and luminous symbols give information on operation status. It is housed in 3-module box and connected to the control unit by means of 6-wire cable terminated with RJ12 PLUG. Weight: 0.10 kg. Depth 45mm.

Installation

3-module box — Frame — PTR — Plate
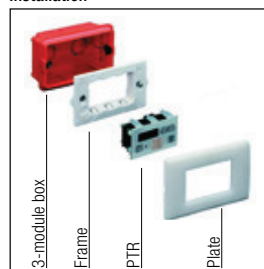
CODE	ITEM		CIVIL SERIES			AVAIL.
6101-135011	PTR	A1	AVE	Blanc	white	●
6101-135022	PTR	A2		Noir AX	black	●
6101-	PTR	A3		Banquise	white	○
6101-	PTR	A4		Domus 100	white	○
6101-	PTR	A5		RAL	white	○
6101-	PTR	A6		LIFE 44	black	○
6102-	PTR	BT0	TICINO	Magic	white	○
6102-	PTR	BT1		Living	black	○
6102-135022	PTR	BT2		Living Intern.	black	●
6102-135031	PTR	BT3		Light	white	●
6102-	PTR	BT4		Luna	white	○
6102-135053	PTR	BT5		Ligh-Tech	silver	●
6102-135061	PTR	BT6		Matix	white	●
6102-	PTR	BT7		Axolute	white	○
6102-	PTR	BT8		Axolute	white	○
6103-	PTR	G1	GEWISS	Playbus	white	○
6103-135022	PTR	G2		Playbus	black	●
6103-	PTR	G3		Chorus	white	○
6103-	PTR	G4		Chorus	silver	○
6103-135052	PTR	G5		Chorus	black	●
6103-	PTR	G6		System 9000	white	○
6103-	PTR	G7		System 9000	black	○
6104-	PTR	L1	LEGRAND	Cross	white	○
6104-	PTR	L2		Vela	black	○
6105-	PTR	S1	SIEMENS	Delta Futura	white	○
6105-	PTR	S2		Delta Futura	black	○
6106-	PTR	V0	VIMAR	8000	white	○
6106-135011	PTR	V1		Idea	white	●
6106-135022	PTR	V2		Idea	black	●
6106-135031	PTR	V3		Plana	white	●
6106-	PTR	V4		Eikon	silver	○
6106-	PTR	V5		Eikon	black	○
6106-	PTR	V6		Eikon	white	○
6106-	PTR	V7		Plana	grey	○

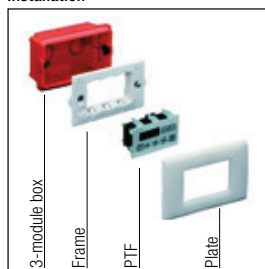Available ●
Available on demand ○

AMPLIFIED POWER SUPPLY

A20/5   Cod. 3200-211010

The preamplification circuit is provided with one Aux input for connection of an external sound source (CD player, etc.), and one input to process the signal from max. 3 desktop microphone units BMCP/A for priority call on sound source. It is also provided with adjustment of input level of the Aux and Mic signals and with adjustment of output signal level, suitable for connection with lines of "SM" series amplified speakers. It can power max. n. 20x10W or n. 5x20W powered speakers. For installations with a higher number of speakers additional A20/5 power supplies must be used. Made of painted metal, for wall-mounted or desktop installation. Dim.: 230x60x210 mm. Weight: 3.6 kg.

TECHNICAL SPECIFICATIONS

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

ADDITIONAL POWER SUPPLY

AS20/5   Cod. 3100-131010

In amplified systems it enables power supply for n. 20x10W or n. 5x20W powered speakers of the 'AUDIO RSA' series. Produced in painted metal, it can be wall mounted or supported on a surface.

TECHNICAL SPECIFICATIONS

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

PREAMPLIFIED DESKTOP MICROPHONE UNIT

BMCP/A   Cod. 1800-221010

Unit with gooseneck microphone, cardioid electret with luminous ring, suitable for voice announcements in combination with A20/5 or AD20/5 power supply. It can be also connected to announcement generator GSV. Provided with one stable and one unstable button to activate microphone and priority contact for attenuation of sound source connected to the same power supply, and activate the circuit to generate the dual-tone signal. Two leds indicate button activation. It is powered directly from the power supply to which it is connected. Aluminium extruded body, ABS sides with feet. Complete with 5m connection cable. Grey/black colour.

TECHNICAL SPECIFICATIONS

Output impedance	10KΩ
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

RECESSED MICROPHONE

MI503   Cod. 3200-231000
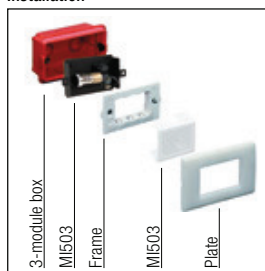
SMALL-SIZE RECESSED SPEAKER

DI503/H   Cod. 6400-103000

High-sensitivity electret cardioid microphone that guarantees excellent voice quality in situations where the speaker is distant from the microphone. To combine with A20/5 amplified power supply. Microphone capsule and preamplifier circuit mounted on vetronite support with adhesive lexan, suitable for installation in 3-module box that is taken completely. Available in the series specified in the table. Weight: 0.09 Kg. Depth 45mm.
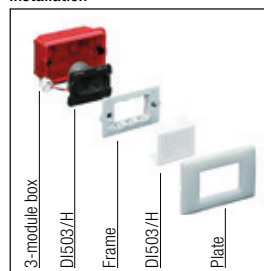
Small-size speaker for installation in 3-module box that is taken completely. The size of the loudspeaker permits a power of 3 W. Equipped with CA10MP amplifier module to be housed separately. Available in the series specified in the table. Weight: 0.16 Kg

Installation

3-module box | MI503 | Frame | MI503 | Plate

Installation

3-module box | DI503/H | Frame | DI503/H | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
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		Axolute	white	○
3203-	MI503	G1	GEWISS	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		System 9000	black	○
3204-	MI503	L1	LEGRAND	Cross	white	○
3204-	MI503	L2		Vela	black	○
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	○
3206-	MI503	V7		Plana	grey	○

Available ●
Available on demand ○

CODE	ITEM		CIVIL SERIES		AVAIL.
6401-103011	DI503/H	A1	AVE	Blanc	white	●
6401-103022	DI503/H	A2		Noir AX	black	●
6401-	DI503/H	A3		Banquise	white	○
6401-	DI503/H	A4		Domus 100	white	○
6401-	DI503/H	A5		RAL	white	○
6401-	DI503/H	A6		LIFE 44	black	○
6402-	DI503/H	BT0	TICINO	Magic	white	○
6402-103012	DI503/H	BT1		Living	black	●
6402-103022	DI503/H	BT2		Living Intern.	black	●
6402-103031	DI503/H	BT3		Light	white	●
6402-103041	DI503/H	BT4		Luna	white	●
6402-103053	DI503/H	BT5		Ligh-Tech	silver	●
6402-103061	DI503/H	BT6		Matix	white	●
6402-103073	DI503/H	BT7		Axolute	white	●
6402-103082	DI503/H	BT8		Axolute	white	●
6403-	DI503/H	G1	GEWISS	Playbus	white	○
6403-103022	DI503/H	G2		Playbus	black	●
6403-103031	DI503/H	G3		Chorus	white	●
6403-103043	DI503/H	G4		Chorus	silver	●
6403-103052	DI503/H	G5		Chorus	black	●
6403-	DI503/H	G6		System 9000	white	○
6403-	DI503/H	G7		System 9000	black	○
6404-	DI503/H	L1	LEGRAND	Cross	white	○
6404-	DI503/H	L2		Vela	black	○
6405-	DI503/H	S1	SIEMENS	Delta Futura	white	○
6405-	DI503/H	S2		Delta Futura	black	○
6406-	DI503/H	V0	VIMAR	8000	white	○
6406-103011	DI503/H	V1		Idea	white	●
6406-103022	DI503/H	V2		Idea	black	●
6406-103031	DI503/H	V3		Plana	white	●
6406-103043	DI503/H	V4		Eikon	silver	●
6406-103052	DI503/H	V5		Eikon	black	●
6406-	DI503/H	V6		Eikon	white	○
6406-	DI503/H	V7		Plana	grey	○

Available ●
Available on demand ○

10W CEILING-MOUNT SPEAKER

DC20/H Cod. 3400-120101

10W CEILING/WALL MOUNT SPEAKER

DCP2017/H Cod. 6400-241101

10W WALL-MOUNT SPEAKER

DP2512/H Cod. 6400-251101

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. White colour.

Elegant speaker characterised by excellent quality of voice announcements and background music. ABS self-extinguishing 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 amplifier module with trimmer for better adjustment of sound level. White, grey, black colour.

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. White, grey, black colour.

Profile

Profile

Profile

TECHNICAL SPECIFICATIONS

Type	ceiling mount
Input impedance Aux	10KΩ
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	110 ÷ 15000Hz
S.P.L. 1W@1m	90 ±3dB
Speaker type	5" full range
Speaker impedance	8Ω
Dimensions	ø200mm x 50mm
Recessed hole dimensions	ø170mm
Material	metallo
Colour	white
Weight	0,7Kg

TECHNICAL SPECIFICATIONS

Type	ceiling/wall mount
Input impedance Aux	10KΩ
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	4Ω
Dimensions	195x166x55mm
Recessed hole dimensions	155x125mm
Material	ABS/steel
Colour	white, black, grey
Weight	1,0Kg

TECHNICAL SPECIFICATIONS

Type	wall mount
Input impedance Aux	10KΩ
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	4Ω
Dimensions	250x120x73mm
Sporgenza massima	73mm
Material	ABS
Colour	white, black, grey
Weight	1Kg

10W AMPLIFIER CIRCUIT WITH MUSIC/VOICE RELAY

CA10MP Cod. 3400-013010

TECHNICAL SPECIFICATIONS

Input impedance	10KΩ
Input sensitivity	400mV
Input sensitivity	4 ÷ 8Ω
Frequency response	50÷20000Hz
Power supply	18Vdc
Absorption	200mA

This circuit is necessary to adapt 4/8 Ohm speakers to amplified installations with A20/5 power supply. Complete with trimmer for better adjustment of sound level. It is provided with one dedicated input for volume adjustment RVC or RVIC. It is also provided with one dedicated audio input for room calls with MEGA-RSA system, in combination with input for 18÷24Vdc activation voltage. It is housed in branching box or fixed on the speaker body.

SUPERVISION AND CONTROL SOFTWARE

SWB   Cod. 6600-300010

Extremely easy to use, with modern user-friendly graphics, it allows for complete management of rooms and common areas in terms of alarms, signalling messages, reset, temperature, full-duplex handsfree conversation and technological controls. It is provided with historical database to record and print all events (alarms, signalling messages, anomalies, accesses, etc.). It is prearranged for management of additional workstations and can be interfaced with PBX telephone system to send alarm signals to cordless telephone and page staff.

MEGA-RSA ROOM MANAGEMENT SOFTWARE

SWG-H25   MEGA-RSA room management software from 1 to 25 rooms   Cod. 6300-181025

SWG-H50   MEGA-RSA room management software from 26 to 50 rooms   Cod. 6300-181050

SWG-H75   MEGA-RSA room management software from 51 to 75 rooms   Cod. 6300-181075

SWG-H100   MEGA-RSA room management software from 76 to 100 rooms   Cod. 6300-181100

SWG-H150   MEGA-RSA room management software from 101 to 150 rooms   Cod. 6300-181150

SWG-H200   MEGA-RSA room management software from 151 to 200 rooms   Cod. 6300-181200

SWG-H250   MEGA-RSA room management software from 201 to 250 rooms   Cod. 6300-181250

SWG-H500   MEGA-RSA room management software from 251 to 500 rooms   Cod. 6300-181500

SWG-H1000   MEGA-RSA room management software from 501 to 1000 rooms   Cod. 6300-181999

SOFTWARE INTERFACE FOR CORDLESS TELEPHONES

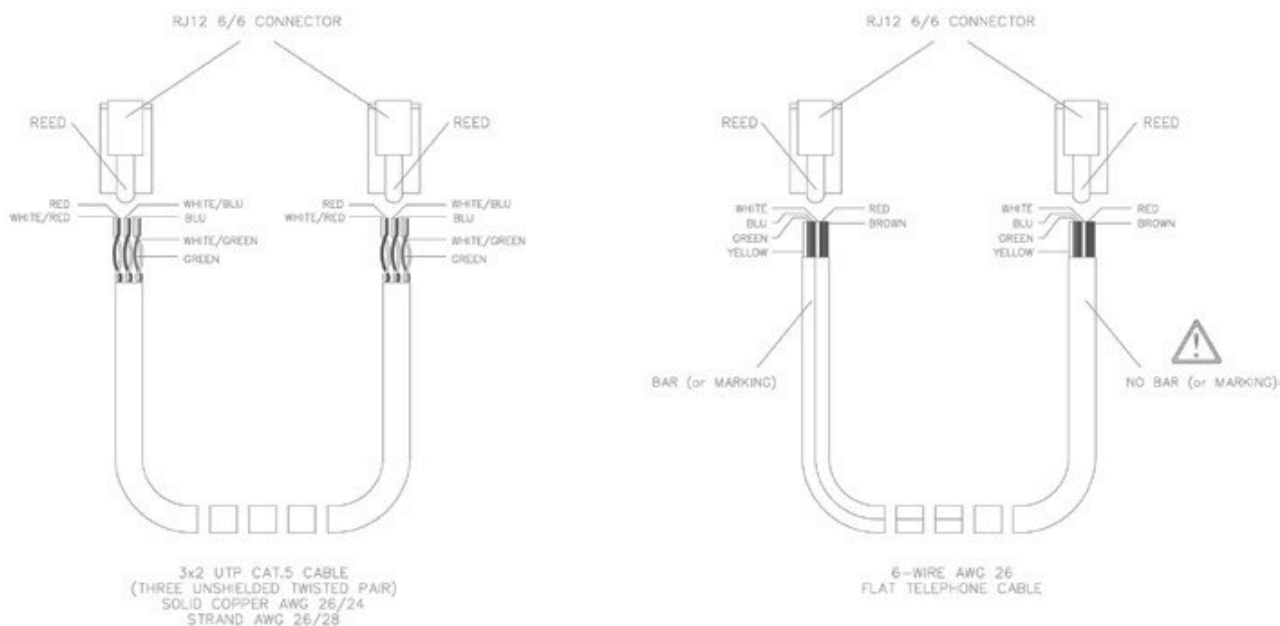**SW/C**   Software interface for cordless telephones   Cod. 6300-182000

IMPORTANT NOTICE

- The UGC-H control unit is mounted in DIN rail and takes 9 modules. It must be powered at 12Vac with 15VA transformer. An independent transformer must be used for each control unit, connected to dedicated electrical line with on-line UPS.

- **Always disconnect power supply before making electrical connections.**

- The temperature sensors must be installed in dedicated boxes at approx. 1.5 m from the floor, in a place protected from sunlight and away from air draughts or heat sources (i.e. doors, windows, perimeter walls, etc.). Do not install it above the thermostat panel because it generates heat.

- The connection cables of the input devices (such as temperature sensors, magnetic contacts, buttons, jack sockets, etc.) must not exceed 20 m in length.

- The radiator or fan-coil valves must be of ON/OFF type. Valve controls must be provided with 220Vac voltage. The electrothermal model must be of NC type, i.e. with control mounted on the valve and not powered, the water flow must be blocked.

- Use a good-quality crimping tool to crimp PLUG connectors and check them with suitable cable tester. The cable length must not exceed 15 metres.

- It is recommended to install a 1.6A delayed fuse between the relay output contact and the load to protect the control unit.

- **We recommend keeping signal lines (data BUS, inputs, etc.) separate from power lines.**

- The minimum requirements of the PC used to control the installation are as follows:
  - Pentium IV 2.8GHz CPU
  - 160 GB hard disk
  - 1 GB Ram
  - S-VGA colour monitor
  - 1 serial port (second port recommended as spare)
  - 2 USB ports
  - Fast Ethernet 10/100Mbps network board
  - mouse and keyboard
  - audio board and speakers
  - Windows XP professional or Windows 7 32bit

- **For correct operation the PC must be always on and must be dedicated to MEGA-RSA system.**

- The control software works at 800x600 pixel resolution.

CABLE CRIMPING DIAGRAM

CABLE HEADINGS FOR RJ12 CONNECTORS OF MEGA-RSA SYSTEM

RJ12 6/6 CONNECTOR

REED

RED
WHITE/RED

WHITE/BLU
BLU
WHITE/GREEN
GREEN

REED

3x2 UTP CAT.5 CABLE
(THREE UNSHIELDED TWISTED PAIR)
SOLID COPPER AWG 26/24
STRAND AWG 26/28

RJ12 6/6 CONNECTOR

REED

WHITE
BLU
GREEN
YELLOW

RED
BROWN

REED

BAR (or MARKING)

NO BAR (or MARKING)

6-WIRE AWG 26
FLAT TELEPHONE CABLE

WARNING!
- ONLY USE CABLES DESCRIBED IN DIAGRAM, IF IN DOUBT CONTACT ITC TECHNICAL SUPPORT;
- ONLY USE TOP QUALITY RJ12 6/6 CONNECTORS;
- USE TOP QUALITY PLIERS FOR CRIMPING, METAL ONES ARE PREFERRED;
- CHECK CABLES USING A SPECIFIC TESTER;
- COLOURS DESCRIBED IN DIAGRAM ARE INDICATIVE.

BUS AND POWER SUPPLY CONNECTION DIAGRAM
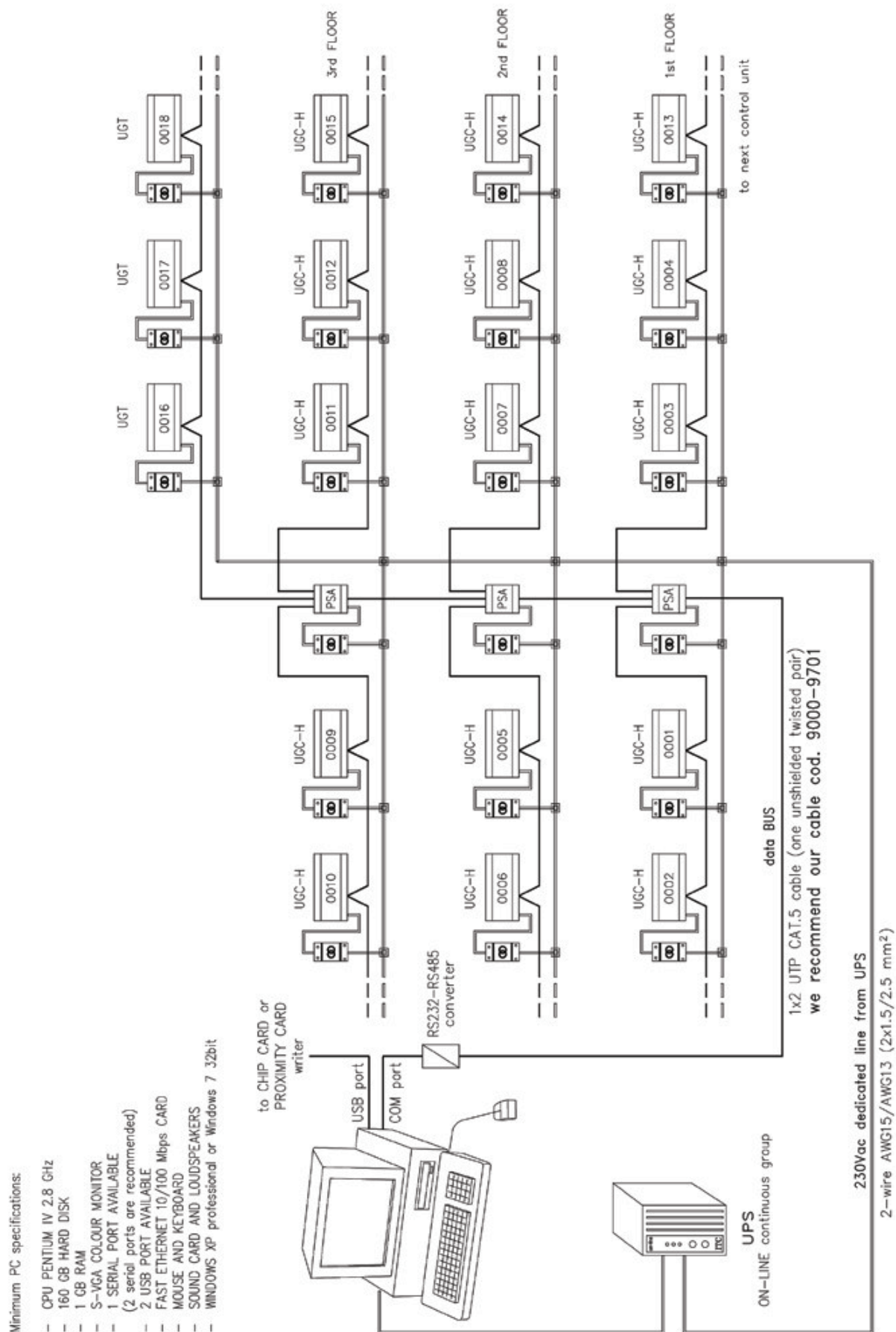
Minimum PC specifications:
- CPU PENTIUM IV 2.8 GHz
- 160 GB HARD DISK
- 1 GB RAM
- S-VGA COLOUR MONITOR
- 1 SERIAL PORT AVAILABLE (2 serial ports are recommended)
- 2 USB PORT AVAILABLE
- FAST ETHERNET 10/100 Mbps CARD
- MOUSE AND KEYBOARD
- SOUND CARD AND LOUDSPEAKERS
- WINDOWS XP professional or Windows 7 32bit

to CHIP CARD or PROXIMITY CARD writer

USB port

COM port

RS232-RS485 converter

UGC-H 0010
UGC-H 0009
UGC-H 0006
UGC-H 0005
UGC-H 0002
UGC-H 0001

UGT 0018
UGT 0017
UGT 0016

UGC-H 0015
UGC-H 0012
UGC-H 0011

UGC-H 0014
UGC-H 0008
UGC-H 0007

UGC-H 0013
UGC-H 0004
UGC-H 0003

3rd FLOOR
2nd FLOOR
1st FLOOR

to next control unit

PSA

data BUS

1x2 UTP CAT.5 cable (one unshielded twisted pair)
we recommend our cable cod. 9000-9701

230Vac dedicated line from UPS

2-wire AWG15/AWG13 (2x1.5/2.5 mm²)

UPS
ON-LINE continuous group

MULTI-WIRE ROOM DIAGRAM
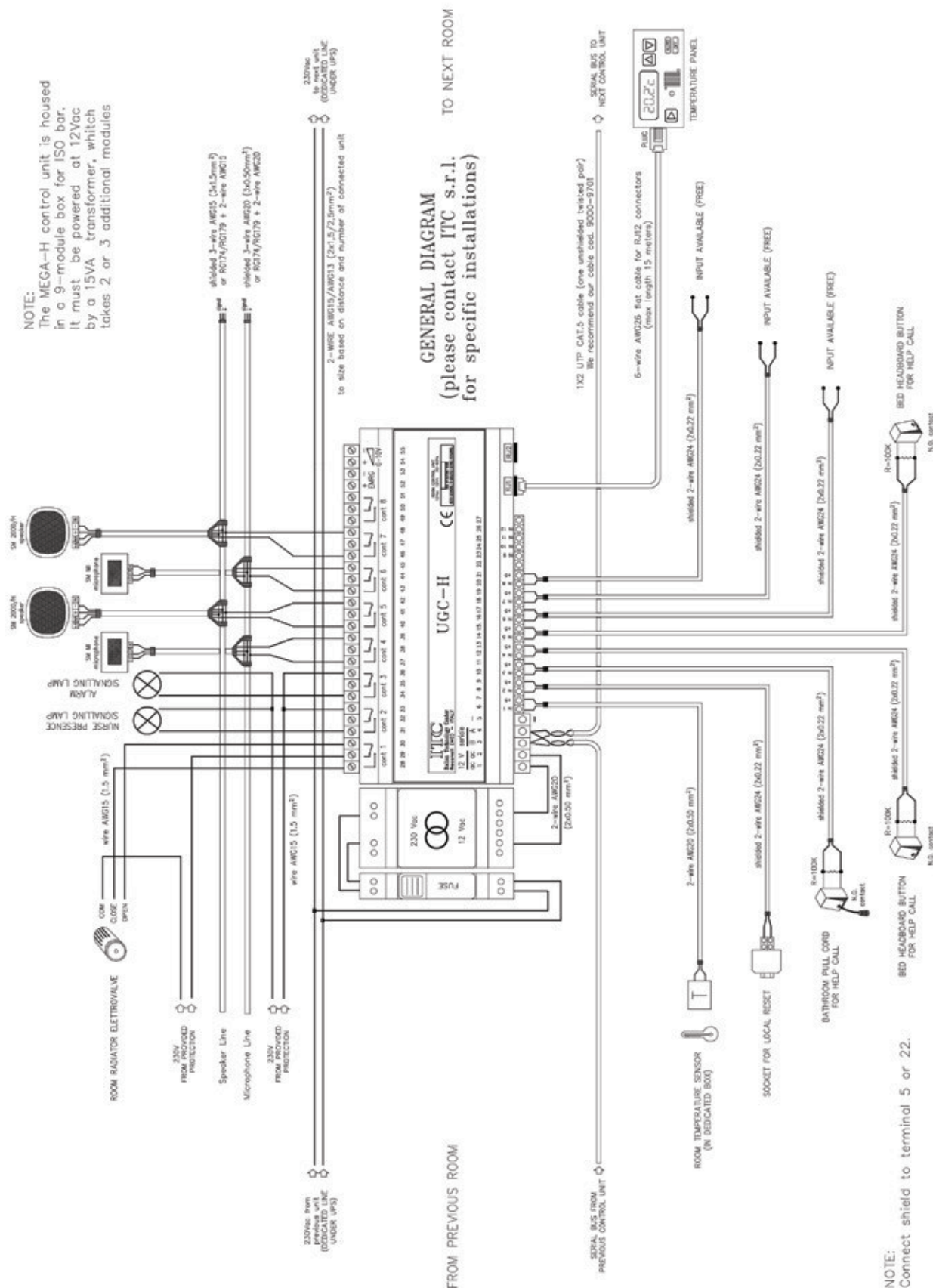
TECHNOLOGICAL CONTROL UNIT

UGT Cod. 6500-101010

The UGT technological control unit is housed in 9-module box for DIN rail. Provided with 8 analog and 4 digital inputs for connection of following devices:

- "STI" temperature sensors,
- NO or NC type alarm/anomaly contacts,
- switches,
- buttons,
- bathroom pull cords for help call,
- flood sensors,
- counters.

It is also provided with inputs for "PTF/PTR" panel (max. 1) and chip card or proximity card readers for common areas (max. 4).
It is provided with 8 relay outputs with voltage-free contacts for 230Vac - 4(2)A loads and one output with 0-10Vdc continuous voltage for control of linear modulating electrovalves.
Data is transmitted over 2-wire UTP CAT.5 bus cable, RS 485 standard,
Re-programmable microcontroller of flash type. 12Vac, 15VA power supply.
Dimensions: 160x100x60 mm. Weight: 0.50 kg.

CHIP CARD READER FOR COMMON AREAS

LCZ   Cod. 6500-115000

It provides access to common areas in different mode for guests, visitors, manager, staff, maintenance operators, etc. It is provided with illuminated insertion slot for chip card with ISO 7816 format, 2 leds for card validity and one voltage free contact for door opening with 24V, 4(2)A relay. It is housed in 3-module box and connected to the technological control unit UGT with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depht: 50 mm.

Installation

3-module box / Frame / LCZ / Plate
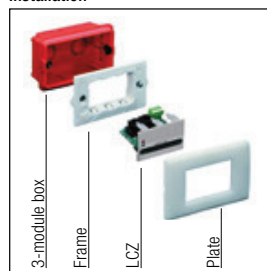
CODE	ITEM		CIVIL SERIES		AVAIL.
6501-115011	LCZ	A1	Blanc	white	●
6501-115022	LCZ	A2	Noir AX	black	●
6501-	LCZ	A3	Banquise	white	○
6501-115041	LCZ	A4	Domus 100	white	●
6501-	LCZ	A5	RAL	white	○
6501-	LCZ	A6	LIFE 44	black	○
6502-	LCZ	BT0	Magic	white	○
6502-	LCZ	BT1	Living	black	○
6502-115022	LCZ	BT2	Living Intern.	black	●
6502-115031	LCZ	BT3	Light	white	●
6502-115041	LCZ	BT4	Luna	white	●
6502-115053	LCZ	BT5	Ligh-Tech	silver	●
6502-115061	LCZ	BT6	Matix	white	●
6502-	LCZ	BT7	Axolute	white	○
6502-	LCZ	BT8	Axolute	white	○
6503-	LCZ	G1	Playbus	white	○
6503-115022	LCZ	G2	Playbus	black	●
6503-	LCZ	G3	Chorus	white	○
6503-115043	LCZ	G4	Chorus	silver	●
6503-115052	LCZ	G5	Chorus	black	●
6503-115061	LCZ	G6	System 9000	white	●
6503-	LCZ	G7	System 9000	black	○
6504-	LCZ	L1	Cross	white	○
6504-115022	LCZ	L2	Vela	black	●
6505-	LCZ	S1	Delta Futura	white	○
6505-	LCZ	S2	Delta Futura	black	○
6506-	LCZ	V0	8000	white	○
6506-115011	LCZ	V1	Idea	white	●
6506-115022	LCZ	V2	Idea	black	●
6506-115031	LCZ	V3	Plana	white	●
6506-	LCZ	V4	Eikon	silver	○
6506-115052	LCZ	V5	Eikon	black	●
6506-	LCZ	V6	Eikon	white	○
6506-	LCZ	V7	Plana	grey	○

Civil series groups: AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7).

Available ●
Available on demand ○

PROXIMITY CARD READER FOR COMMON AREAS

LTZ   Cod. 6500-117000

It provides access to common areas by proximity cards with ISO 7816 format in different mode for guests, visitors, manager, staff, maintenance operators, etc. Max. reading distance 5 cm. It is provided with 2 leds for card validity and one voltage free contact for door opening, with 24V, 4(2)A relay. It is housed in 3-module box and connected to the technological control unit UGT with 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depht: 53 mm.

Installation

3-module box / Frame / LTZ / Plate
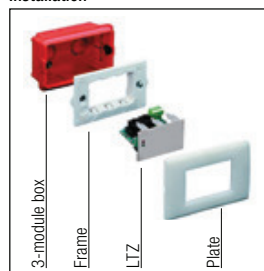
CODE	ITEM		CIVIL SERIES		AVAIL.
6501-117011	LTZ	A1	Blanc	white	●
6501-117022	LTZ	A2	Noir AX	black	●
6501-117031	LTZ	A3	Banquise	white	●
6501-117041	LTZ	A4	Domus 100	white	●
6501-	LTZ	A5	RAL	white	○
6501-117062	LTZ	A6	LIFE 44	black	●
6502-	LTZ	BT0	Magic	white	○
6502-	LTZ	BT1	Living	black	○
6502-117022	LTZ	BT2	Living Intern.	black	●
6502-117031	LTZ	BT3	Light	white	●
6502-117041	LTZ	BT4	Luna	white	●
6502-117053	LTZ	BT5	Ligh-Tech	silver	●
6502-117061	LTZ	BT6	Matix	white	●
6502-	LTZ	BT7	Axolute	white	○
6502-117082	LTZ	BT8	Axolute	white	●
6503-	LTZ	G1	Playbus	white	○
6503-117022	LTZ	G2	Playbus	black	●
6503-117031	LTZ	G3	Chorus	white	●
6503-117043	LTZ	G4	Chorus	silver	●
6503-117052	LTZ	G5	Chorus	black	●
6503-	LTZ	G6	System 9000	white	○
6503-	LTZ	G7	System 9000	black	○
6504-	LTZ	L1	Cross	grey	○
6504-	LTZ	L2	Vela	black	○
6505-	LTZ	S1	Delta Futura	white	○
6505-	LTZ	S2	Delta Futura	black	○
6506-	LTZ	V0	8000	white	○
6506-117011	LTZ	V1	Idea	white	●
6506-117022	LTZ	V2	Idea	black	●
6506-117031	LTZ	V3	Plana	white	●
6506-117043	LTZ	V4	Eikon	silver	●
6506-	LTZ	V5	Eikon	black	○
6506-	LTZ	V6	Eikon	white	○
6506-	LTZ	V7	Plana	griio	○

Civil series groups: AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7).

Available ●
Available on demand ○
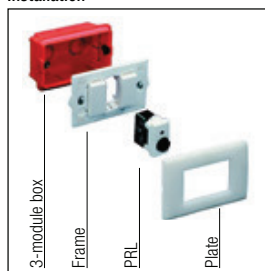
SOCKET FOR LOCAL RESET

PRL   Cod. 6300-141000

Socket for local alarm reset by means of coded jack for identification of operator with display, recording, storing and printing of events.
Weight: 0.03 kg. Depth: 46mm.

Installation

3-module box | Frame | PRL | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
6301-141011	STI	A1		Blanc	white	●
6301-141022	STI	A2		Noir AX	black	●
6301-	STI	A3	AVE	Banquise	white	○
6301-	STI	A4		Domus 100	white	○
6301-	STI	A5		RAL	white	○
6301-	STI	A6		LIFE 44	black	○
6302-	STI	BT0		Magic	white	○
6302-	STI	BT1		Living	black	○
6302-	STI	BT2		Living Intern.	black	○
6302-141031	STI	BT3		Light	white	●
6302-	STI	BT4	TICINO	Luna	white	○
6302-	STI	BT5		Ligh-Tech	silver	○
6302-141061	STI	BT6		Matix	white	●
6302-	STI	BT7		Axolute	white	○
6302-	STI	BT8		Axolute	white	○
6303-	STI	G1		Playbus	white	○
6303-	STI	G2		Playbus	black	○
6303-	STI	G3		Chorus	white	○
6303-	STI	G4	GEWISS	Chorus	silver	○
6303-	STI	G5		Chorus	black	○
6303-	STI	G6		System 9000	white	○
6303-	STI	G7		System 9000	black	○
6304-	STI	L1	LEGRAND	Cross	white	○
6304-	STI	L2		Vela	black	○
6305-	STI	S1	SIEMENS	Delta Futura	white	○
6305-	STI	S2		Delta Futura	black	○
6306-	STI	V0		8000	white	○
6306-	STI	V1		Idea	white	○
6306-	STI	V2		Idea	black	○
6306-141031	STI	V3	VIMAR	Plana	white	●
6306-	STI	V4		Eikon	silver	○
6306-131052	STI	V5		Eikon	black	●
6306-	STI	V6		Eikon	white	○
6306-	STI	V7		Plana	grey	○

Available ●
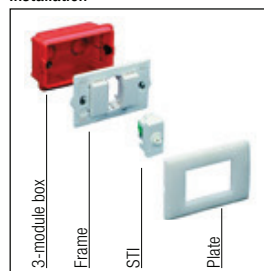Available on demand ○

TEMPERATURE SENSOR

STI   Cod. 6100-131000

It measures the temperature of the room where it is installed. It is composed of an NTC sensor and is installed in a standard blank insert. It must be installed at 150/170 cm from the ground, in specific box away from heat sources or air draughts. Weight: 0.03 kg. Depth: 35mm.

Installation

3-module box | Frame | STI | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
6101-131011	STI	A1		Blanc	white	●
6101-131022	STI	A2		Noir AX	black	●
6101-131031	STI	A3	AVE	Banquise	white	●
6101-131041	STI	A4		Domus 100	white	●
6101-	STI	A5		RAL	white	○
6101-131062	STI	A6		LIFE 44	black	●
6102-	STI	BT0		Magic	white	○
6102-131012	STI	BT1		Living	black	●
6102-131022	STI	BT2		Living Intern.	black	●
6102-131031	STI	BT3		Light	white	●
6102-131041	STI	BT4	TICINO	Luna	white	●
6102-131053	STI	BT5		Ligh-Tech	silver	●
6102-131061	STI	BT6		Matix	white	●
6102-131073	STI	BT7		Axolute	white	●
6102-131082	STI	BT8		Axolute	white	●
6103-	STI	G1		Playbus	white	○
6103-131022	STI	G2		Playbus	black	●
6103-131031	STI	G3		Chorus	white	●
6103-131043	STI	G4	GEWISS	Chorus	silver	●
6103-131052	STI	G5		Chorus	black	●
6103-131061	STI	G6		System 9000	white	●
6103-	STI	G7		System 9000	black	○
6104-	STI	L1	LEGRAND	Cross	white	○
6104-	STI	L2		Vela	black	○
6105-	STI	S1	SIEMENS	Delta Futura	white	○
6105-	STI	S2		Delta Futura	black	○
6106-	STI	V0		8000	white	○
6106-131011	STI	V1		Idea	white	●
6106-131022	STI	V2		Idea	black	●
6106-131031	STI	V3	VIMAR	Plana	white	●
6106-131043	STI	V4		Eikon	silver	●
6106-131052	STI	V5		Eikon	black	●
6106-131061	STI	V6		Eikon	white	●
6106-	STI	V7		Plana	grey	○

Available ●
Available on demand ○

FAN-COIL THERMOSTAT PANEL
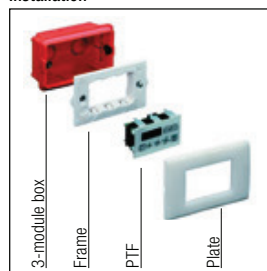
PTF   Cod. 6100-133000

It allows the guest to change temperature, speed, automatic or manual operation and switch off air conditioning. The display shows time, set and measured temperature values and speed. The light sensor optimises contrast and luminous symbols provide information on operation status. It is housed in 3-module box and connected to the control unit by means of 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth: 45mm.

Installation

3-module box | Frame | PTF | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
6101-133011	PTF	A1	Blanc	white	●
6101-133022	PTF	A2	Noir AX	black	●
6101-133031	PTF	A3	Banquise	white	●
6101-133041	PTF	A4	Domus 100	white	●
6101-	PTF	A5	RAL	white	○
6101-133062	PTF	A6	LIFE 44	black	●
6102-	PTF	BT0	Magic	white	○
6102-133012	PTF	BT1	Living	black	●
6102-133022	PTF	BT2	Living Intern.	black	●
6102-133031	PTF	BT3	Light	white	●
6102-133041	PTF	BT4	Luna	white	●
6102-133053	PTF	BT5	Ligh-Tech	silver	●
6102-133061	PTF	BT6	Matix	white	●
6102-133073	PTF	BT7	Axolute	white	●
6102-133082	PTF	BT8	Axolute	white	●
6103-	PTF	G1	Playbus	white	○
6103-133022	PTF	G2	Playbus	black	●
6103-133031	PTF	G3	Chorus	white	●
6103-133043	PTF	G4	Chorus	silver	●
6103-133052	PTF	G5	Chorus	black	●
6103-	PTF	G6	System 9000	white	○
6103-	PTF	G7	System 9000	black	○
6104-	PTF	L1	Cross	white	○
6104-133022	PTF	L2	Vela	black	●
6105-	PTF	S1	Delta Futura	white	○
6105-	PTF	S2	Delta Futura	black	○
6106-	PTF	V0	8000	white	○
6106-133011	PTF	V1	Idea	white	●
6106-133022	PTF	V2	Idea	black	●
6106-133031	PTF	V3	Plana	white	●
6106-133043	PTF	V4	Eikon	silver	●
6106-133052	PTF	V5	Eikon	black	●
6106-133061	PTF	V6	Eikon	white	●
6106-	PTF	V7	Plana	grey	○

AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7)

Available ●
Available on demand ○

RADIATOR THERMOSTAT PANEL
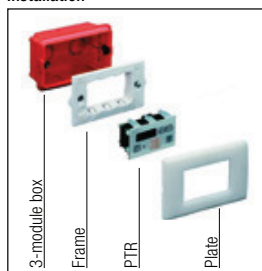
PTR   Cod. 6100-135000

It allows the guest to change temperature and switch on and off the heating. The display shows time, set temperature and measured temperature. The light sensor optimises contrast and luminous symbols provide information on operation status. It is housed in 3-module box and connected to the control unit by means of 6-wire cable terminated with RJ12 PLUG. Weight: 0.1 kg. Depth: 45mm.

Installation

3-module box | Frame | PTR | Plate

CODE	ITEM		CIVIL SERIES		AVAIL.
6101-135011	PTR	A1	Blanc	white	●
6101-135022	PTR	A2	Noir AX	black	●
6101-	PTR	A3	Banquise	white	○
6101-	PTR	A4	Domus 100	white	○
6101-	PTR	A5	RAL	white	○
6101-	PTR	A6	LIFE 44	black	○
6102-	PTR	BT0	Magic	white	○
6102-	PTR	BT1	Living	black	○
6102-135022	PTR	BT2	Living Intern.	black	●
6102-135031	PTR	BT3	Light	white	●
6102-	PTR	BT4	Luna	white	○
6102-135053	PTR	BT5	Ligh-Tech	silver	●
6102-135061	PTR	BT6	Matix	white	●
6102-	PTR	BT7	Axolute	white	○
6102-	PTR	BT8	Axolute	white	○
6103-	PTR	G1	Playbus	white	○
6103-135022	PTR	G2	Playbus	black	●
6103-	PTR	G3	Chorus	white	○
6103-	PTR	G4	Chorus	silver	○
6103-135052	PTR	G5	Chorus	black	●
6103-	PTR	G6	System 9000	white	○
6103-	PTR	G7	System 9000	black	○
6104-	PTR	L1	Cross	white	○
6104-	PTR	L2	Vela	black	○
6105-	PTR	S1	Delta Futura	white	○
6105-	PTR	S2	Delta Futura	black	○
6106-	PTR	V0	8000	white	○
6106-135011	PTR	V1	Idea	white	●
6106-135022	PTR	V2	Idea	black	●
6106-135031	PTR	V3	Plana	white	●
6106-	PTR	V4	Eikon	silver	○
6106-	PTR	V5	Eikon	black	○
6106-	PTR	V6	Eikon	white	○
6106-	PTR	V7	Plana	grey	○

AVE (A1–A6), TICINO (BT0–BT8), GEWISS (G1–G7), LEGRAND (L1–L2), SIEMENS (S1–S2), VIMAR (V0–V7)

Available ●
Available on demand ○

SUPERVISION AND CONTROL SOFTWARE

SWB   Cod. 6600-300010

Extremely simple to use, with modern attractive graphics, enables total management of shared spaces for access, activation of electrical appliances, alarms, signals, etc. Complex technological controls available through dedicated software modules. Features historical archive for management and printing of all events (alarms, signals, anomalies, access, etc.). Can handle additional workstations and can be interfaced with the most popolar air conditioning/heating systems.

## TECHNOLOGICAL CONTROL UNITS MANAGEMENT SOFTWARE

SWG-T5   Technological software from 1 to 5 UGT units   Cod. 6500-183005

SWG-T10   Technological software from 6 to 10 UGT units   Cod. 6500-183010

SWG-T15   Technological software from 11 to 15 UGT units   Cod. 6500-183015

SWG-T20   Technological software from 16 to 20 UGT units   Cod. 6500-183020

SWG-T25   Technological software from 21 to 25 UGT units   Cod. 6500-183025

SWG-T35   Technological software from 26 to 35 UGT units   Cod. 6500-183035

SWG-T50   Technological software from 36 to 50 UGT units   Cod. 6500-183050

SWG-T75   Technological software from 51 to 75 UGT units   Cod. 6500-183075

SWG-T100   Technological software from 76 to 100 UGT units Cod. 6500-183100

IMPORTANT NOTICE

- The UGT control unit is mounted in DIN rail and takes 9 modules. It must be powered at 12Vac with 15VA transformer. An independent transformer must be used for each control unit, connected to dedicated electrical line with on-line UPS.

- **Always disconnect power supply before making electrical connections.**

- The temperature sensors must be installed in dedicated boxes at approx. 1.5 m from the floor, in a place protected from sunlight and away from air draughts or heat sources (i.e. doors, windows, perimeter walls, etc.). Do not install it above the thermostat panel because it generates heat.

- The connection cables of the input devices (such as temperature sensors, magnetic contacts, buttons, jack sockets, etc.) must not exceed 20 m in length.

- The radiator or fan-coil valves must be of ON/OFF type. Valve controls must be provided with 220Vac voltage. The electrothermal model must be of NC type, i.e. with control mounted on the valve and not powered, the water flow must be blocked.

- Use a good-quality crimping tool to crimp PLUG connectors and check them with suitable cable tester. The cable length must not exceed 15 metres.

- It is recommended to install a 1.6A delayed fuse between the relay output contact and the load to protect the control unit.

- **We recommend keeping signal lines (data BUS, inputs, etc.) separate from power lines.**

- The minimum requirements of the PC used to control the installation are as follows:
  - Pentium IV 2.8GHz CPU
  - 160 GB hard disk
  - 1 GB Ram
  - S-VGA colour monitor
  - 1 serial port (second port recommended as spare)
  - 2 USB ports
  - Fast Ethernet 10/100Mbps network board
  - mouse and keyboard
  - audio board and speakers
  - Windows XP professional or Windows 7 32bit.

- **For correct operation the PC must be always on and must be dedicated to the MEGA-TECH system.**

- The control software works at 800x600 pixel resolution.

MULTI-WIRE DIAGRAM

GENERAL DIAGRAM
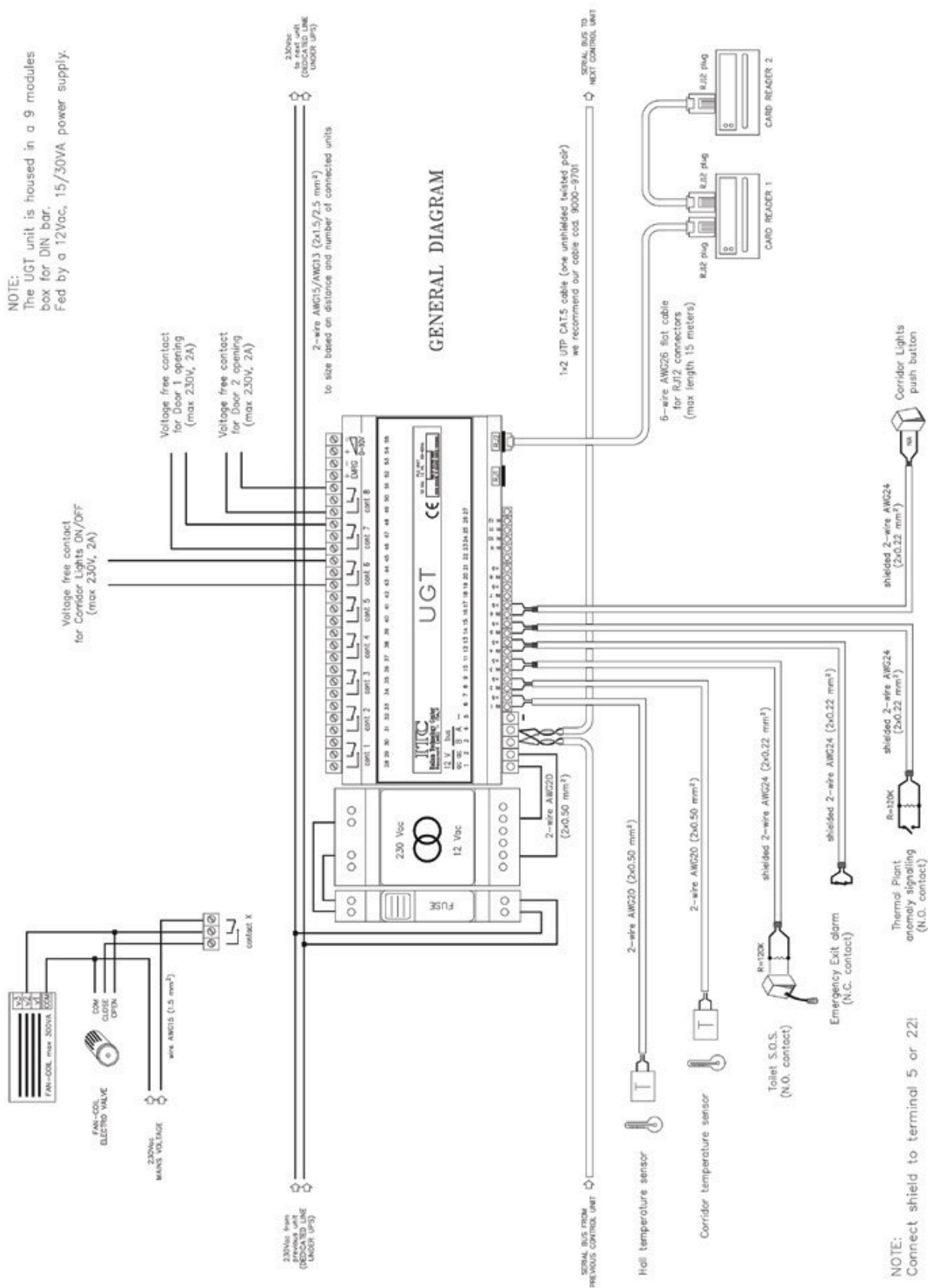
CHIP CARD WRITER

CC   Cod. 6600-201010

Chip card reader/writer in desktop version, complete with connection cable to PC via USB port. Dimensions (lxhxd): 72x28x84 mm. Weight 0.1 kg.

PROXIMITY CARD WRITER

CT   Cod. 6600-203010

Proximity card reader/writer in desktop version, complete with connection cable to PC via USB port. Dimensions (lxhxd): 51x21x96 mm. Weight 0.1 kg.

AMPLIFIED SIGNAL SPLITTER

PSA   Cod. 6600-211010

It amplifies incoming signal and splits it over three different outputs. It is housed in 3-module box for DIN rail. 12Vac, 15VA power supply. Dimensions (lxhxd): 54x96x58 mm. Weight 0.1 kg.

SIGNAL CONVERTER

CS   Cod. 6600-221010

It converts the signal from RS232 to RS485 half duplex standard. 220Vac, 5VA power supply. Dimensions (lxhxp): 122x62x65. Weight: 0.5 kg.
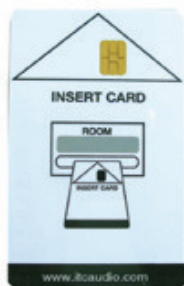
ADAPTER KIT FOR USB-COM PORT

C-USB   Cod. 6600-223010

Converter from USB to serial port.

CHIP CARD

SC   Cod. 6600-231010

2K chip card with protected memory, ISO 7816 standard, credit card format. Single-face standard printing with insertion direction. Dimensions (lxhxd): 54x1x85. Weight: 0.02 kg.

TRANSPONDER TAG

ST   Cod. 6600-233010

125 KHz proximity card, credit card format. Single-face standard printing. Dimensions (lxhxd): 54x1x85. Weight: 0.02 kg.

ROOM ACTIVATOR

AC   Cod. 6600-241010

It detects the guest presence in the room by closing of a contact (i.e.: suite control). Dimensions: 64x89x40mm. Weight 0,1Kg.

GUEST JACK

JC   Cod. 6600-251010

When inserted in the "AJ" room activator, it allows the system to detect the presence of guests and activate room services. Weight: 0.03 kg.

STAFF JACK

JP   Cod. 6600-253010

When inserted in the "AJ" room activator, it allows the system to detect the presence of the staff and activate specific services. It can manage max. 30 different names. Weight: 0.03 kg.

UTP CAT.5 1x2 BUS CABLE

CUTP Cod. 6600-012300

1-pair twisted cable, 1x2 UTP CAT.5, for data bus.

100%ED ELECTRIC DOOR LOCK

IE100 Cod. 6600-261010

"Current launch" operation with self-closing, adjustable latch locking lug, completely symmetrical and reversible. 12 Vdc power supply, 250 mA absorption, 100%ED "fail secure" coil.

ELECTRIC DOOR LOCK

IE Cod. 6600-263010

"Current launch" operation with self-closing, adjustable latch locking lug, completely symmetrical and reversible. 12 Vac/dc power supply, 480 mA absorption.

FRONTAL PLATE FOR ELECTRIC DOOR LOCK

MRIE Cod. 6600-260013

Reversible model made of stainless steel.