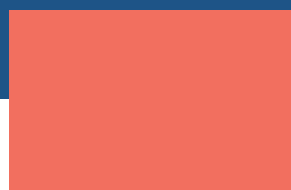
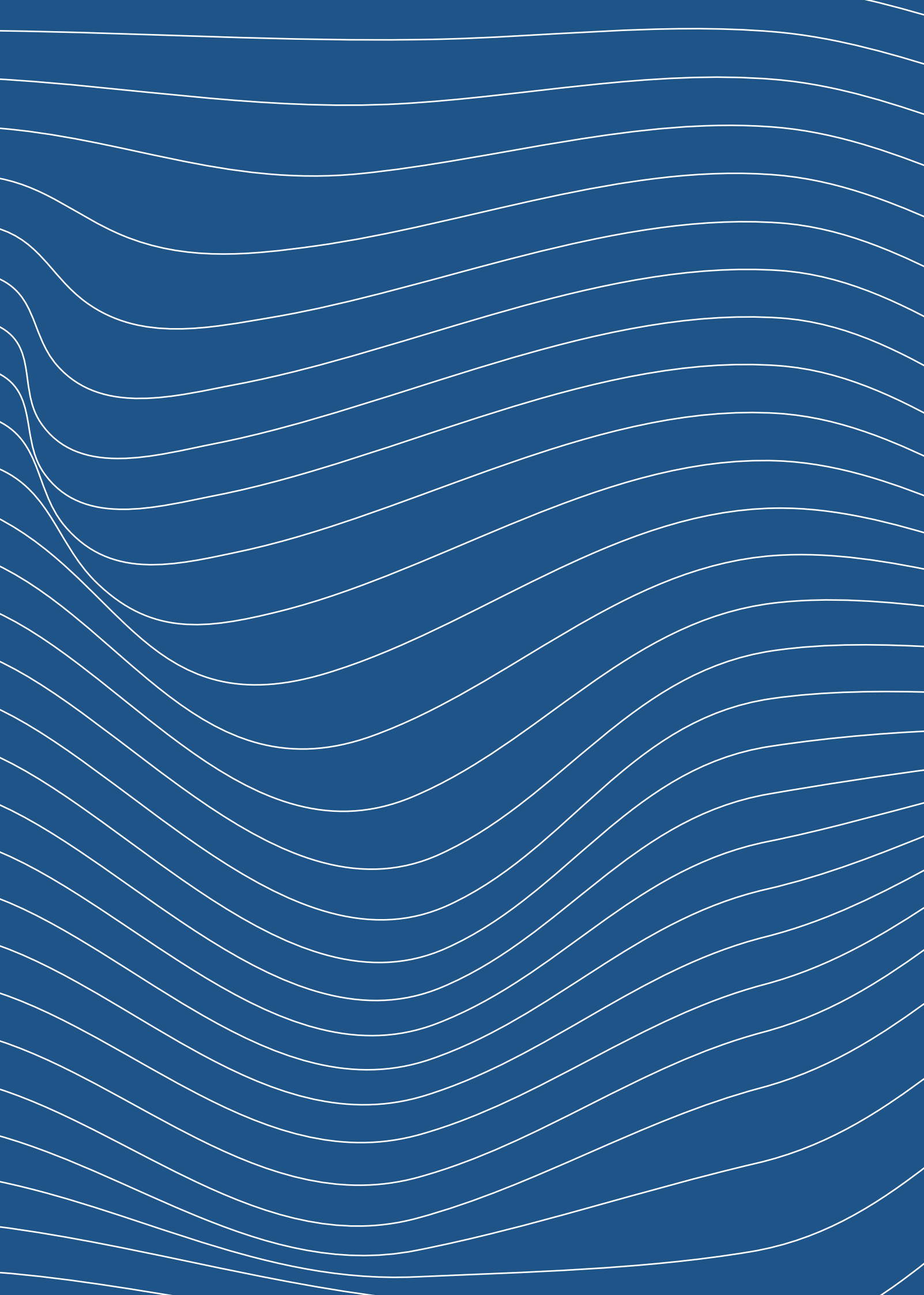


AUDIO & ROOM MANAGEMENT



GRMS








AUDIO & ROOM MANAGEMENT

To **make big things**,
we have not only to **act**,
but also to **dream**:
not only to **design**,
but also to **create**.

More than
30 years' experience
in **public address**
and **room automation**
for accommodation
facilities.



The ITC world

Established in 1985, I.T.C. srl is dedicated to the **development, manufacturing and distribution** of premier audio and hotel room automation products. The endless search for new technologies, the constant control over quality of products and services provided, have made I.T.C. a leading company in the market of sound reinforcement, multimedia and building automation systems.

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

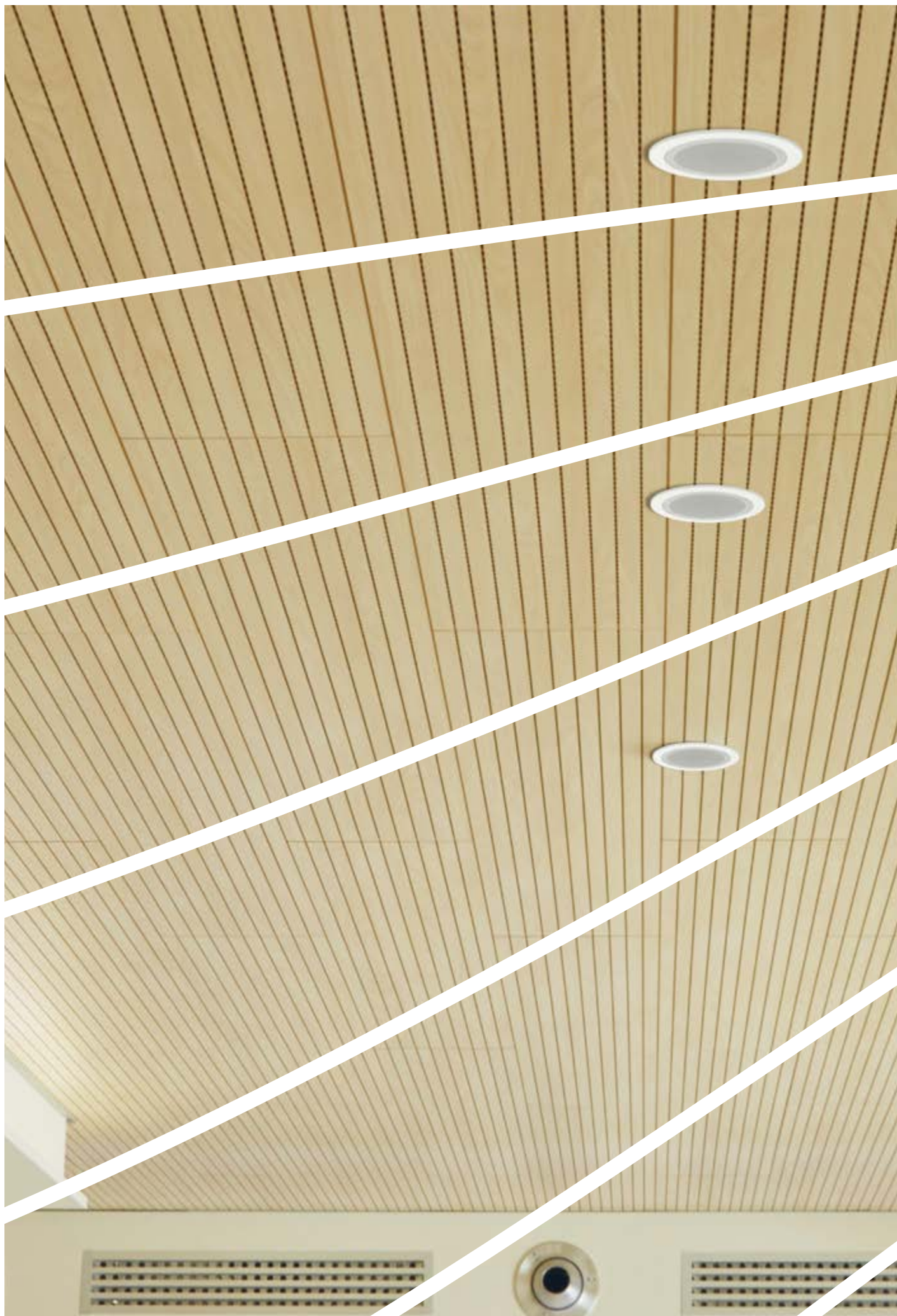
Whether you install simple **sound diffusion systems** in private houses, announcement systems for large malls, audio-video systems for Convention Centres or **room automation systems** for hotels, hospitals and nursing homes, I.T.C. is always with you, with the efficiency given by our deep knowledge of the market, and with a strong motivation to extend

our presence worldwide. Trusted by our Clients, we are proud to be, think and act as a **"MADE IN ITALY"** company.

Young, qualified and motivated personnel, constantly trained, allow I.T.C. to provide the best solutions and services to the market.

I.T.C. has got a network of **13 specialised agencies and 22 technical assistance service companies** all over Italy in order to guarantee **pre and post-sales activities** and constant assistance to designers, contractors and installers, to illustrate product applications and provide upgrade information on manuals and installation diagrams.







Fields

**Over 100.000
hotel rooms
and 5000 audio
systems realized**

AUDIO

Designing, producing and providing amplifying systems is our bread and butter. The audio department, with its dedicated technicians and engineers, daily takes care of supporting the clients on designing and achieving **any type of audio system for any need**. The entire line of **EN54 products** makes ITC the perfect partner also for sound evacuation systems for any space, big or small. Thanks to some external companies' partnership, we are able to design and supply **also multimedia audio/video systems**.

HOTEL AUTOMATION

I.T.C.'s **GRMS (Guest Room Management System)** department boasts over 30 years of experience on the most **advanced technologies** available on the market for our products, in order to give to our customers the possibility to **simplify and automate** their daily work; in doing that, they can save on electric and thermal energy and staff management. Thanks to GRMS department's technicians and engineers, the activity of **research and development** is very active. With our systems it is possible to manage from the simple access control to the air-conditioning, lights and alarms control both in the rooms and in the communal areas.

Energy saving, safety and comfort.

Take your time and relax, our system will take care of the rest.

Energy saving, safety and comfort are the main advantages that our systems provide.

A centralized room temperature control, with a pre-programmed temperature profile, without affecting room comfort, may provide sensible energy cost savings.

Room security is guaranteed by a coded access control, and by sensors on doors and windows to provide a remote alert, as well as guest's safety by means of SOS switches in the bathroom in case of help needed.

CUSTOMER CARE

I.T.C. has a sales and technical assistance network consisting in Sales Agencies and Service Centres covering the whole national territory. We assist our customers from system design to after-sales service with competence and professionalism. Our staff is always available to provide information and suggestions to help during the process of designing, installation and configuration of the system.



Plus



GRMS

Take your time and relax:
our systems will take care of the rest.

Are you an owner of a hotel, a holiday farm or a B&B and you need a system which will help you automate your facility and save money? Are you a designer or a professional installer and you are looking for an innovative, technological and easy-to-install product? I.T.C. has designed and produced **building automation systems for accommodation facilities since 1985**. Technology, applied to hotels, is our bread and butter and among the extended product range there is for sure what you need.

EASYOPEN



ME

G cod. 6800 - 101010
N cod. 6800 - 101011



TN

cod. 6800-101020



GW

cod. 6800-101030



AIM

cod. 6800-101040



UGC-IP

cod. 6700-101010



UGT-IP

cod. 6700-107010



UGF-IP

cod. 6700-103010



LTC-T

B cod. 6700 - 113001
N cod. 6700 - 113002



LTZ-T

B cod. 6700 - 117001
N cod. 6700 - 117002

MEGA-IP



AIT-T B cod. 6700 - 125001
N cod. 6700 - 125002



PTF-T B cod. 6700 - 133001
N cod. 6700 - 133002



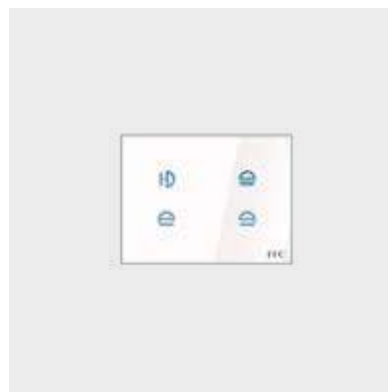
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N cod. 6700 - 162002



UGL-IP cod. 6700-105010



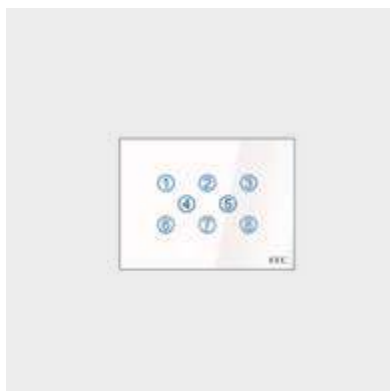
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N cod. 6700 - 158002



PCL4-T B cod. 6700 - 153001
N cod. 6700 - 153002



PNC-T B cod. 6700 - 170001
N cod. 6700 - 170002



TNA-T B cod. 6700 - 118001
N cod. 6700 - 118002



UE2-IP cod. 6700-109020



UE4-IP

cod. 6700-109040



UGC

cod. 6100-101010



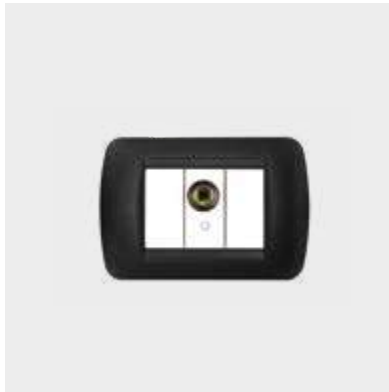
LCC

cod. 6100-111000



LTC

cod. 6100-113000



AJ

cod. 6100-127000



AS

cod. 6100-121000



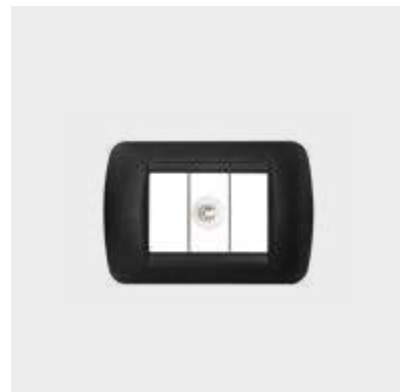
AIC

cod. 6100-123000



AIT

cod. 6100-125000



STI

cod. 6100-131000



PTF

cod. 6100-133000



PTR

cod. 6100-135000



UGC-M

cod. 6200-101010

MEGA-M



LCC-M

cod. 6200-111000



LTC-M

cod. 6200-113000



AS

cod. 6100-121000

MEGA-RSA



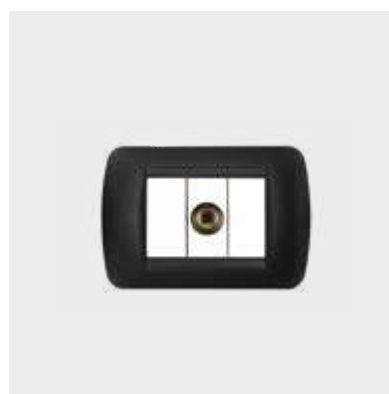
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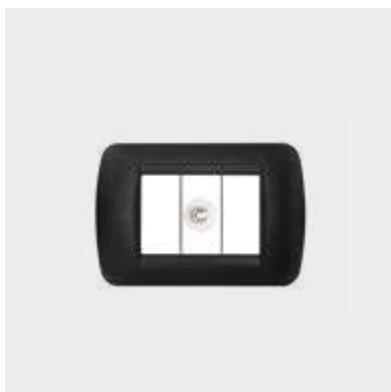
UGC-H

cod. 6300-101010



PRL

cod. 6300-141000



STI

cod. 6100-131000



PTF

cod. 6100-133000



PTR

cod. 6100-135000



A20 / 5

cod. 3200-211010



AS20 / 5

cod. 3100-131010



BMCP / A

cod. 3200-221010



MI503

cod. 3200-231000



DI503 / H

cod. 6400-103000



DC20 / H

cod. 6400-120101



DCP2017 / H

cod. 6400-241101



DP2512 / H

cod. 6400-251101



UGT

cod. 6500-101010

MEGA TECH



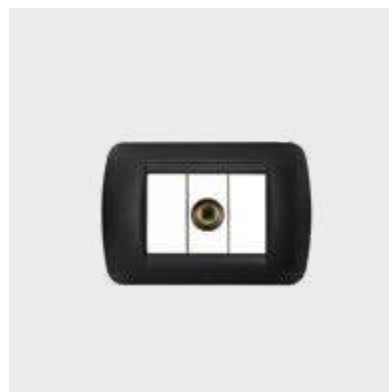
LCZ

cod. 6500-115000



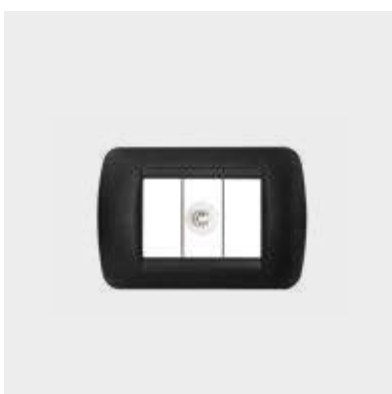
LTZ

cod. 6500-117000



PRL

cod. 6300-141000



STI

cod. 6100-131000



PTF

cod. 6100-133000



PTR

cod. 6100-135000

ACCESSORIES



CC

cod. 6600-201010



CT

cod. 6600-203010



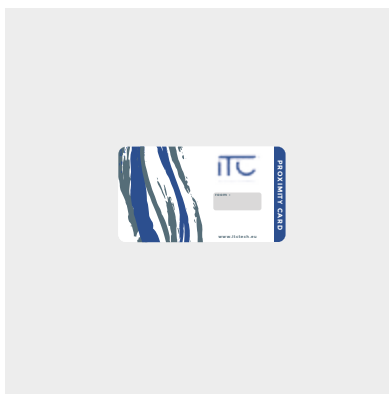
PSA

cod. 6600-211010



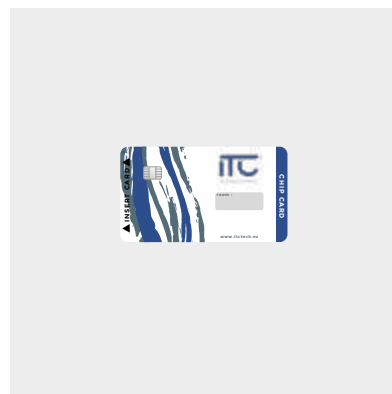
CSU

cod. 6600-221010



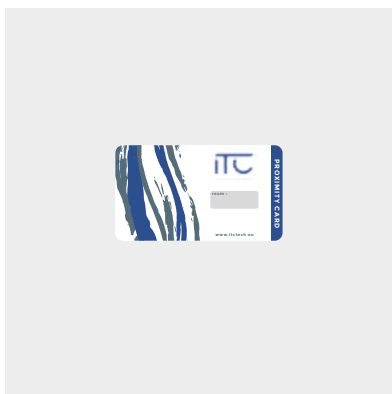
STM

cod. 6700-235010



SC

cod. 6600-231010



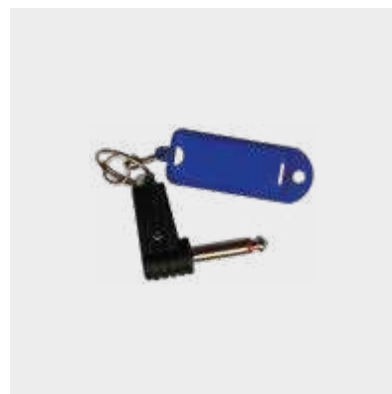
ST

cod. 6600-233010



AC

cod. 6600-241010



JC

cod. 6600-251010



JP

cod. 6600-253010



CUTP

cod. 6600-012300



IE100

cod. 6600-261010



IE

cod. 6600-263010



MRIE

cod. 6600-260013

MEGA TECH



EASYOPEN

ALL THE ADVANTAGES OF THE KEYLESS HANDLE

EASYOPEN allows an efficient access control with no masonry work and no PC, also in already existing facilities. It is the perfect solution in order to control every access from any place and in real time, bypassing the reception service. Consequently, there is a saving in terms of costs and time spent waiting for the clients to deliver them the traditional keys.

Power supply and emergency opening

In case of sudden batteries break (they are slotted in the inner part of the door), the product, provided with the USB port, can be recharged through a power bank, in order to make possible the continuum of the electronic functions. Alternatively, the door can also be opened through a mechanical key: the lock is positioned underneath the handle.

MOISTURE RESISTANT

Made of zinc alloy, stainless steel and ABS, the product is not only solid and long-lasting, but also water and dust resistant.

CONNECTION AND REMOTE CONTROL

With the addition of the gateway, it is possible to connect to the handle and remote control it. Therefore, you can cancel cards, enable accesses, create new pin codes, open doors... everything becomes possible, also remotely.

OPENING WAYS

EASYOPEN has got three ways of opening for a maximum versatility. If you want to let someone enter only one time or in given time slots, our smart lock allows to set the most indicated way of access.

Numerical code

You can generate a numerical pin code with an expiry date or "one shot". This last function is useful if you want someone to enter just one time, like a maintenance technician. Or codes that allow the opening only in some time slots or specific days of the week. The keyboard is backlit and it lights up as soon as a button is touched.



Rfid transponder card

The Rfid card has got the same functions as the numerical code. The extra comfort is to have a physical object to access the room and no codes to copy or memorize.



App

The guest will be able to access the building directly and easily through his smartphone, as long as you send the electronic key to the client; then he can enter his room.



Any access typology is registered on the Main App storage, that is to say the Manager App. Therefore, it is possible to see all the detailed info on anyone who opened the door, at what time and how.

Smart handles manage **up to 150 cards or pin codes**.
Batteries last, on average, around **10.000 openings**.

SMART HANDLE

ME

G cod. 6800-101010
N cod. 6800-101011



Good-looking, extremely safe and remotely controllable. It is the new smart handle, can be mounted on internal doors and it is suitable for self-check in facilities. Built with use-resistant materials and, therefore, long-lasting, EASYOPEN is a design product, perfect to get balanced with any décor style, easily mountable also on already existing doors. For operating, the handle needs 4pcs AA batteries.

It has a strengthened mechanics compared to other similar products for private residences and it is specifically studied for professional installations in accommodation facilities, where the mechanical stress is higher.

Moreover, there is the possibility to manage it from far away on any device, thanks to the control and access App, designed for both iOS and Android devices.

Available also in total black.

TECHNICAL SPECIFICATIONS

Material	zinc, stainless steel and ABS alloy
Available colours	grey, black
Communication	bluetooth 4.0 BLE
Operating system compatibility	iOS 7.0 or higher – Android 4.4 or higher
Battery duration	10,000 openings
Opening ways	RFID cards, numerical pin code, APP, mechanical key
Unlock time	1 + 1,5 seconds
Operating temperature	-20°C + +40°C
Operating humidity	10% - 95%
IP protection degree	IP62
Wi-fi gateway	available
Packaging	cardboard, expanded polyethylene
Dimensions	80x230x75mm
Door thickness (mm)	min. 38 – max. 55
Max. number of cards	150
Max. number of pin codes	150

OUTDOOR KEYBOARD

TN

cod. 6800-101020



In combination with the indoor handles, this wall keyboard makes an entire facility completely self-check-in because it allows to control all the openings located before the rooms: gates, residents front door, garages, etc. It can also be applied in extra hotel contexts, such as work places, sports buildings, churches and all the locations where an access control is needed. Suitable to any type of opening, a simple or an armoured door, a shutter, a barrier, a gate, etc. The device is set up for wall installation and, through the output contact, it drives the electric strike or the electric lock which opens the opening. Designed and produced to resist to any weather and to be installed in any place: being equipped with backlit keyboard, it is simple to locate even at night or in little lit places. It has the same functions and opening ways as the smart handle. It has got: output for door opening, output for ring bell, input for door opening internal button and input for door status (opened or closed). It can be mounted in a vertical box 503.

TECHNICAL SPECIFICATIONS

Material	aluminium, glass
Colour	grey
Communication	bluetooth 4.1
Operating system compatibility	iOS 7.0 or higher – Android 4.3 or higher
Power supply	12Vdc
Stand-by power	15mA
Operating power	1A
Opening ways	RFID cards, numerical pin code, APP, mechanical key
Unlock time	1 + 1,5 seconds
Operating temperature	-20°C + +40°C
Operating humidity	10% - 95%
IP protection degree	IP66
Wi-fi gateway	available
Packaging	cardboard, expanded polyethylene
Dimensions	125x15,5x79mm
Max. number of cards	2000
Max. number of pin codes	2000

GATEWAY

GW

cod. 6800-101030



The wi-fi gateway allows to connect every device of the building – handles or keyboards – and to remotely control them. Therefore, the owner can open doors or other openings, enable or disable clients' access and let them self-check-in, so that they can enter the facility with no need of reception. It is made in a white plastic container, and equipped with USB cable for power supply. The number of gateways changes depending on the building size.

TECHINCAL SPECIFICATIONS

Material	plastic
Colour	white
Communication	Wi-Fi 2.4G
Power supply	DC 5V/500mA
Power supply connector	USB type C
Dimensions	70x70x26

CT-SE

cod. 6800-102020



Desktop encoder/reader, completed with PC connection cable, through USB port. Only for Easy pen products. Dimensions: 70x70x26 mm. Weight: 0,1 kg

TECHINCAL SPECIFICATIONS

Dimensione (mm)	70x70x26
Colour	black
Weight	0,1Kg

SMART ROOM ACTIVATOR

AIM

cod. 6800-101040



It detects someone's presence in the room through the inserted transponder card reading and it activates all the related services. It is equipped with a vertical nozzle for the insertion of the ISO 7816 Mifare 1K card. It has a led light which eases the nozzle identification and which turns off when the card is inserted. Equipped with protruding wall box. For recessed installation, please order the box SCTIAIM (code 9203-053010). 40A contact for electric energy disruption fase.

TECHINCAL SPECIFICATIONS

Material	ABS
Colour	white
Power voltage	220V - 50+60Hz
Max. electricity	4A
Dimensions	85x55x85mm (recessed, depth 20mm)

SCTIAIM

cod. 9203-053010



Box for recessed mounting for AIM activator. The box is suitable both for plasterboard and for stonework walls.

TECHINCAL SPECIFICATIONS

Material	plastic
Wall typology	stonework - plasterboard
Dimensions	83x73x48
Colour	white/yellow
Weight	0,02Kg
Plasterboard thickness (mm)	min 6 - max 15



megaIP

Hotel Management System

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.



PCT-T



PCL8-T



PCL4-T



PTF-T



AIT-T



LTC-T





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.

ROOM CONTROL UNIT

UGC-IP

cod. 6700-101010



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



The technological control unit is housed in a 5-module box for DIN rail.

It has three analogue and one digital configurable inputs which can be connected to the following devices:

- temperature sensors for common areas (analogue 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 micro-controller 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



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 fancoil.

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

B cod. 6700-113001
N cod. 6700-113002



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. Colour: black, white

PROXIMITY CARD READER FOR COMMON AREAS

LTZ-T

B cod. 6700-117001
N cod. 6700-117002



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. Colour: black, white

SMART ROOM ACTIVATOR

AIT-T

B cod. 6700-125001
N cod. 6700-125002



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.

Colour: black, white

TEMPERATURE CONTROL PANEL

PTF-T

B cod. 6700-133001
N cod. 6700-133002



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, breaking). 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.

Colour: black, white

ELECTRIC SHUTTERS CONTROL PANELS

PCT-T

B cod. 6700-162001
N cod. 6700-162002



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.

Colour: black, white

LIGHTS CONTROL UNIT

UGL-IP

cod. 6700-105010



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.

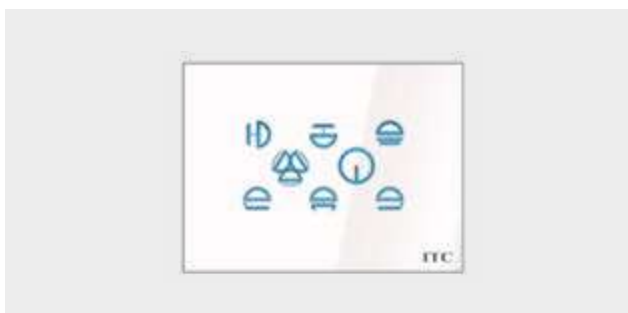
Dimensions 70x100x62 mm.

Weight 0.2 Kg.

8-COMMANDS LIGHTS CONTROL PANEL

PCL8-T

B cod. 6700-158001
N cod. 6700-158002

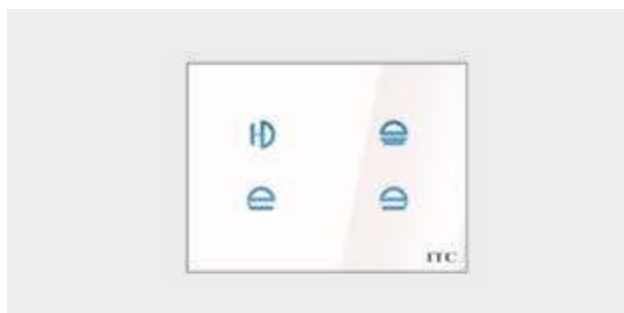


Capacitive glass touch panel to control lights. Features 8 buttons for ON/OFF and regulating intensity of 8 light sources, one button to select lighting scenarios and a general OFF button for lighting. Housed in 3 modules flush mounting box. Connection to UGL, UGC-IP, UGT-IP unit and further units or panels via RJ12 connector for transmission of data and for 12Vdc power supply.
Dimensions 127x95x9mm (+44mm internal).
Weight 0.2 Kg.
Colour: black, white

4-COMMANDS LIGHTS CONTROL PANEL

PCL4-T

B cod. 6700-153001
N cod. 6700-153002



Capacitive glass touch panel for ON/OFF and regulating intensity of 4 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.
Colour: black, white

ROOM NUMBER PANEL

PNC-T

B cod. 6700-170001
N cod. 6700-170002



Capacitive glass backlit touch panel to indicate the number of the room. Same line and appearance of the other glass panels. Housed in 3 modules flush mounting box. Connection from any other panel via RJ12 connector for transmission of data and 12Vdc power supply. Possibility to choose among 3 different light levels, through internal jumper.

Dimensions 127x95x9mm (+44mm internal).

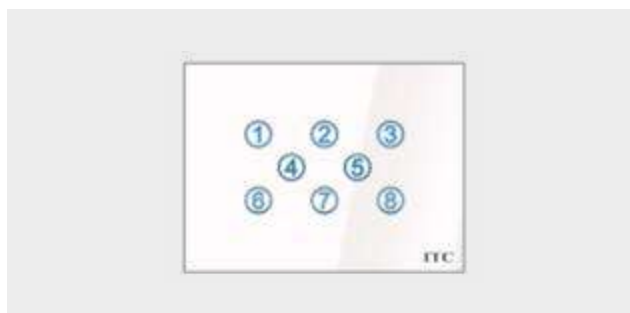
Weight 0.2 Kg.

Colour: black, white

ACCESS NUMERICAL KEYBOARD

TNA-T

B cod. 6700-118001
N cod. 6700-118002



Capacitive glass touch panel for room or common areas access. It has 8 backlit touch-buttons, from number 1 to number 8. It allows to enter through a numerical code. It can be installed in place of the proximity card reader or in addition to this. 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.

Colour: black, white

2IN-2OUT EXPANSION UNIT

UE2-IP

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

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 0.3 Kg.

MONITORING AND CONTROL SOFTWARE

SWB-IP

cod. 6700-300010

MEGA-IP system basic functions management 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.

MEGA-IP ROOM MANAGEMENT SOFTWARE

SWG-IP

SWG-IP25 cod. 6700-181025
Room management software from 1 to 25 rooms

SWG-IP50 cod. 6700-181050
Room management software from 26 to 50 rooms

SWG-IP75 cod. 6700-181075
Room management software from 51 to 75 rooms

SWG-IP100 cod. 6700-181100
Room management software from 76 to 100 rooms

SWG-IP150 cod. 6700-181150
Room management software from 101 to 150 rooms

SWG-IP200 cod. 6700-181200
Room management software from 151 to 200 rooms

SWG-IP250 cod. 6700-181250
Room management software from 201 to 250 rooms

SWG-IP500 cod. 6700-181500
Room management software from 251 to 500 rooms

SWG-IP1000 cod. 6700-181999
Room management software from 501 to 1000 rooms

TECHNOLOGICAL CONTROL UNIT SOFTWARE

SWGT-IP

SWGT-IP5 cod. 6700-183005

Technological control unit management software from 1 to 5 UGT-IP units.

SWGT-IP10 cod. 6700-183010

Technological control unit management software from 6 to 10 UGT-IP units.

SWGT-IP15 cod. 6700-183015

Technological control unit management software from 11 to 15 UGT-IP units.

SWGT-IP20 cod. 6700-183020

Technological control unit management software from 16 to 20 UGT-IP units.

SWGT-IP25 cod. 6700-183025

Technological control unit management software from 21 to 25 UGT-IP units.

SWGT-IP35 cod. 6700-183035

Technological control unit management software from 26 to 35 UGT-IP units.

SWGT-IP50 cod. 6700-183050

Technological control unit management software from 36 to 50 UGT-IP units.

SWGT-IP75 cod. 6700-183075

Technological control unit management software from 51 to 75 UGT-IP units.

SWGT-IP100 cod. 6700-183100

Technological control unit management software from 76 to 100 UGT-IP units.

EXPANSION UNITS SOFTWARE

SWGE-IP

SWGE-IP25 cod. 6700-190025

Expansion unit management software from 1 to 25 units.

SWGE-IP50 cod. 6700-190050

Expansion unit management software from 26 to 50 units.

SWGE-IP75 cod. 6700-190075

Expansion unit management software from 51 to 75 units.

SWGE-IP100 cod. 6700-190100

Expansion unit management software from 76 to 100 units.

SWGE-IP150 cod. 6700-190150

Expansion unit management software from 101 to 150 units.

SWGE-IP200 cod. 6700-190200

Expansion unit management software from 151 to 200 units.

SWGE-IP250 cod. 6700-190250

Expansion unit management software from 201 to 250 units.

SWGE-IP500 cod. 6700-190500

Expansion unit management software from 251 to 500 units.

SWGE-IP750 cod. 6700-190750

Expansion unit management software from 501 to 750 units.

SWGE-IP1000 cod. 6700-191000

Expansion unit management software from 751 to 1000 units.

SWGE-IP1500 cod. 6700-191500

Expansion unit management software from 1001 to 1500 units.

SWGE-IP2000 cod. 6700-192000

Expansion unit management software from 1501 to 2000 units.

SWGE-IP3000 cod. 6700-193000

Expansion unit management software from 2001 to 3000 units.

SOFTWARE

SWPA-IP

cod. 6700-311310

Monitoring and control software for additional workstation, which allows system management and control also from client PC, connected to the main computer through Ethernet.

SWA-IP

cod. 6700-310010

Software upgrade for new implementations or needs.



IMPORTANT NOTICE

UGC-IP and UGT-IP control units are mounted in DIN bar and they take 5 modules. They must be powered at 12Vac with a switching power supply, to size based on the number of panels and extension units connected. An independent power supply must be used for each control unit, located near them, and connected to a dedicated electrical line with on-line double-conversion UPS.

Always disconnect power supply before making electrical connections.

In order to get a correct temperature measurement, temperature panel PTF-T must be installed 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.).

Similarly, temperature sensors STI 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.

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

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 room telerruptor must be at 220Vac. An additional transformer must be installed for components with different voltage.

We recommend to crimp RJ12 connectors with a good quality metal claw and to verify through the specific cable tester. The total cable length must not exceed 25m, summing up the lengths of the single parts connecting the control unit and the various panels and expansion units to the same RJ12 socket. In case of strong inductive loads or led lights, use auxiliary relays to control them. Do not connect these loads directly to ITC units relays.

In the other cases, 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 relay of the control units or expansion units.

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

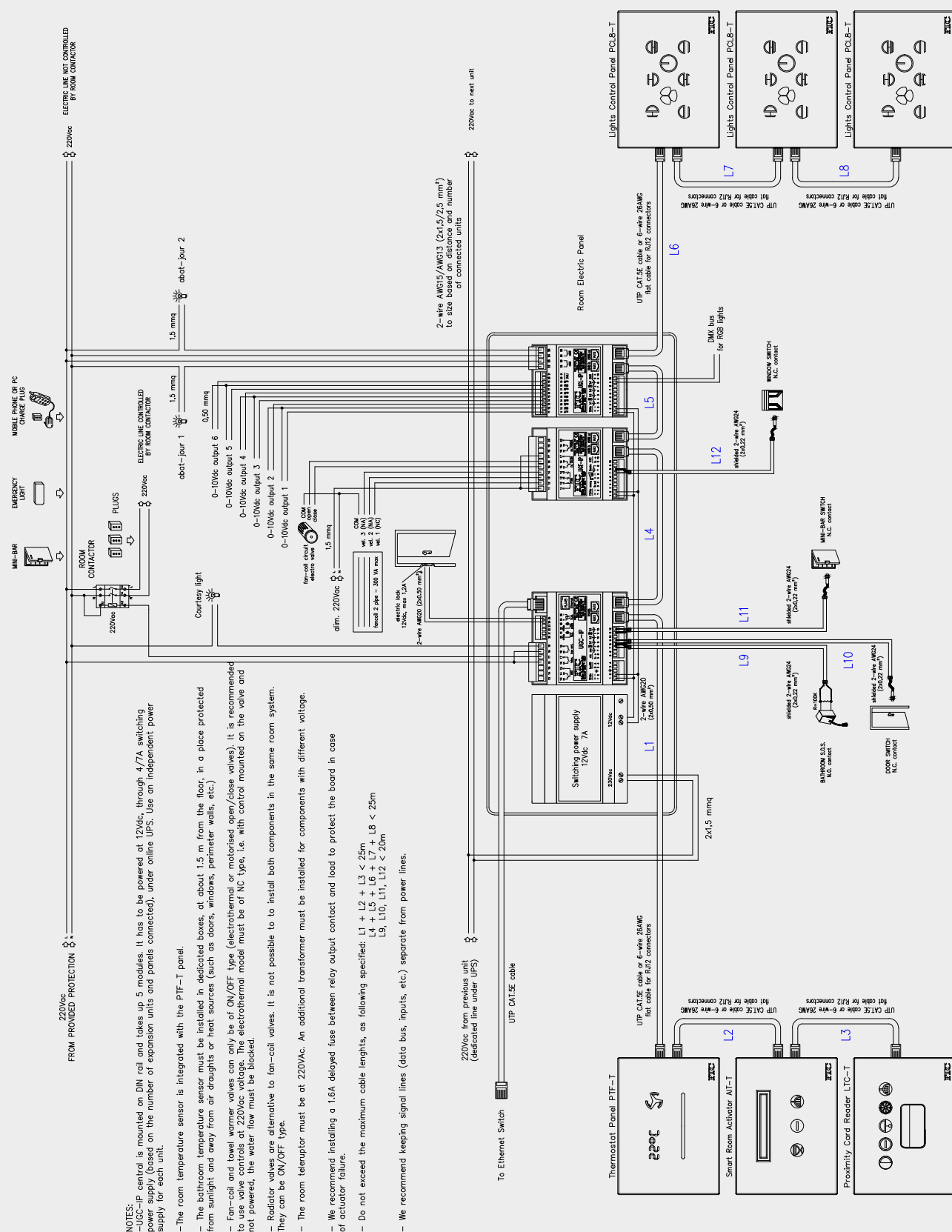
The minimum requirements of the PC used to control the installation are as follows:

- Intel Core i5 CPU
- 250/500GB hard disk
- 4 GB Ram
- TFT colour monitor with minimum resolution 1366x768 points (recommended 1600x1900 points)
- 2 USB ports, dedicated to MEGA-IP system
- 1 or 2 Fast Ethernet 10/100 Mbps network board, based on the activated functions
- Mouse and keyboard
- Audio board and speakers
- Operating system: Windows 7 professional or Windows 10 Pro.

If the PTF-T panel is not installed, alarms and services local reset will not be possible and they will have to be reset from the PC. If units and servers will be connected by Ethernet, it is necessary to arrange a separated network or a dedicated VLAN to the domotics. If there is a VLAN on many switches, it is necessary to arrange a dedicated VLAN Ethernet cable for the connection among them. The switches have to be of the typology: managed. If present, PoE mode on units ports will have to be disabled. Recommended switches: ZyXEL GS series, HP 1820 series.

For the correct functioning of the system, the computer needs to be always turned on and it needs to be dedicated only to MEGA-IP system management.

MEGA-IP WIRING DIAGRAM



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 micro-processor (UGC and UGT 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.



mega



PTF



PTR



AIT



AS



STI



LCC



LTC



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.

CHIPCARD READER WITH SYNOPTIC

LCC

cod. 6100-111000



* Civil series › p. 97



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.

TRANSPONDER CARD READER WITH SYNOPTIC

LTC

cod. 6100-113000



* Civil series › p. 97



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.

ROOM ACTIVATOR WITH JACK SOCKET

AJ

cod. 6100-127000



* Civil series › p. 97



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 UGC 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 UGC control unit. Weight: 0.04 kg. Depth 40mm.

ROOM ACTIVATOR STANDARD TYPE

AS

cod. 6100-121000



* Civil series › p. 97



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 led lights 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.

INTELLIGENT ROOM ACTIVATOR WITH CHIP CARD

AIC

cod. 6100-123000



* Civil series › p. 97



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 UGC with 6-wire cable terminated with RJ12 PLUG.

Weight: 0.1 kg. Depth 50mm.

INTELLIGENT ROOM ACTIVATOR WITH PROXIMITY CARD

AIT

cod. 6100-125000



* Civil series › p. 97



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 UGC control unit with 6-wire cable terminated with RJ12 PLUG.

Weight: 0.1 kg. Depth 50mm.

TEMPERATURE SENSOR

STI

cod. 6100-131000



* Civil series › p. 97



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.

FANCOIL THERMOSTAT PANEL

PTF

cod. 6100-133000



* Civil series › p. 97



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.

RADIATOR THERMOSTAT PANEL

PTR

cod. 6100-135000



* Civil series › p. 97



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.

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.

MEGA ROOM MANAGEMENT SOFTWARE

SWG

SWG25 cod. 6100-181025

Room management software from 1 to 25 rooms

SWG50 cod. 6100-181050

Room management software from 26 to 50 rooms

SWG75 cod. 6100-181075

Room management software from 51 to 75 rooms

SWG100 cod. 6100-181100

Room management software from 76 to 100 rooms

SWG150 cod. 6100-181150

Room management software from 101 to 150 rooms

SWG200 cod. 6100-181200

Room management software from 151 to 200 rooms

SWG250 cod. 6100-181250

Room management software from 201 to 250 rooms

SWG500 cod. 6100-181500

Room management software from 251 to 500 rooms

SWG1000 cod. 6100-181999

Room management software from 501 to 1000 rooms

SYSTEM OPERATION

SYSTEM OPERATION

MEGA is a distributed 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, technical 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 nonexpert 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 airconditioning 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

UGC 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.

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

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.

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.

In case of strong inductive loads or led lights, use auxiliary relays to control them. Do not connect these loads directly to ITC units relays.

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:

- Operating system: Windows 7 professional or Windows 10 Pro.
- Intel i3 CPU
- 2500 GB hard disk
- 4 GB Ram
- S-VGA colour monitor
- 2 USB ports dedicated to MEGA system + 2 additional USB ports available
- Fast Ethernet 10/100 Mbps network board with Internet access, for potential remote assistance
- If you implement an interface with an air-conditioning system, we recommend a second dedicated Ethernet network board
- Mouse and keyboard
- Audio board and speakers

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 HEADING FOR RJ12 CONNECTORS OF MEGA SYSTEM

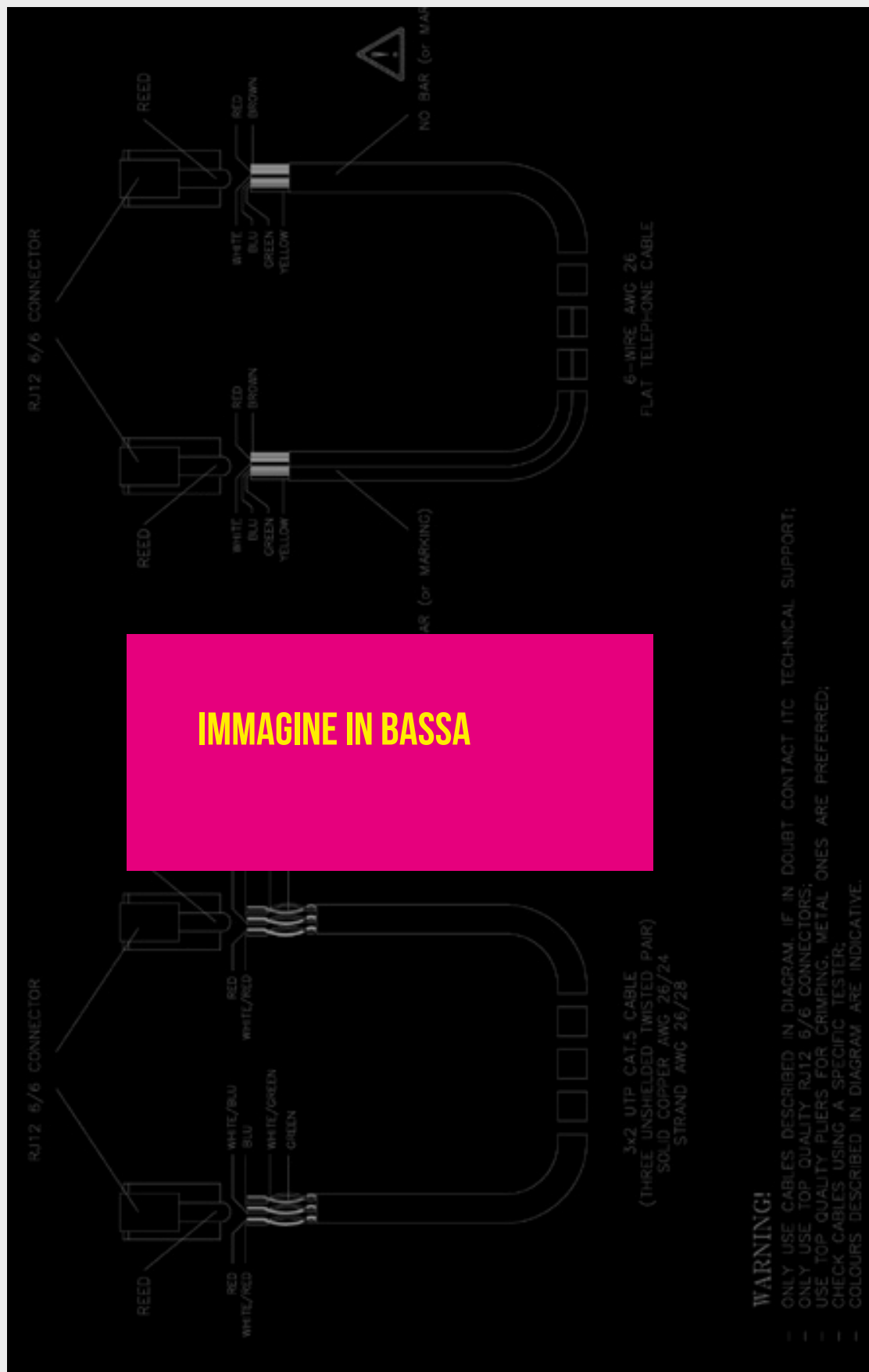
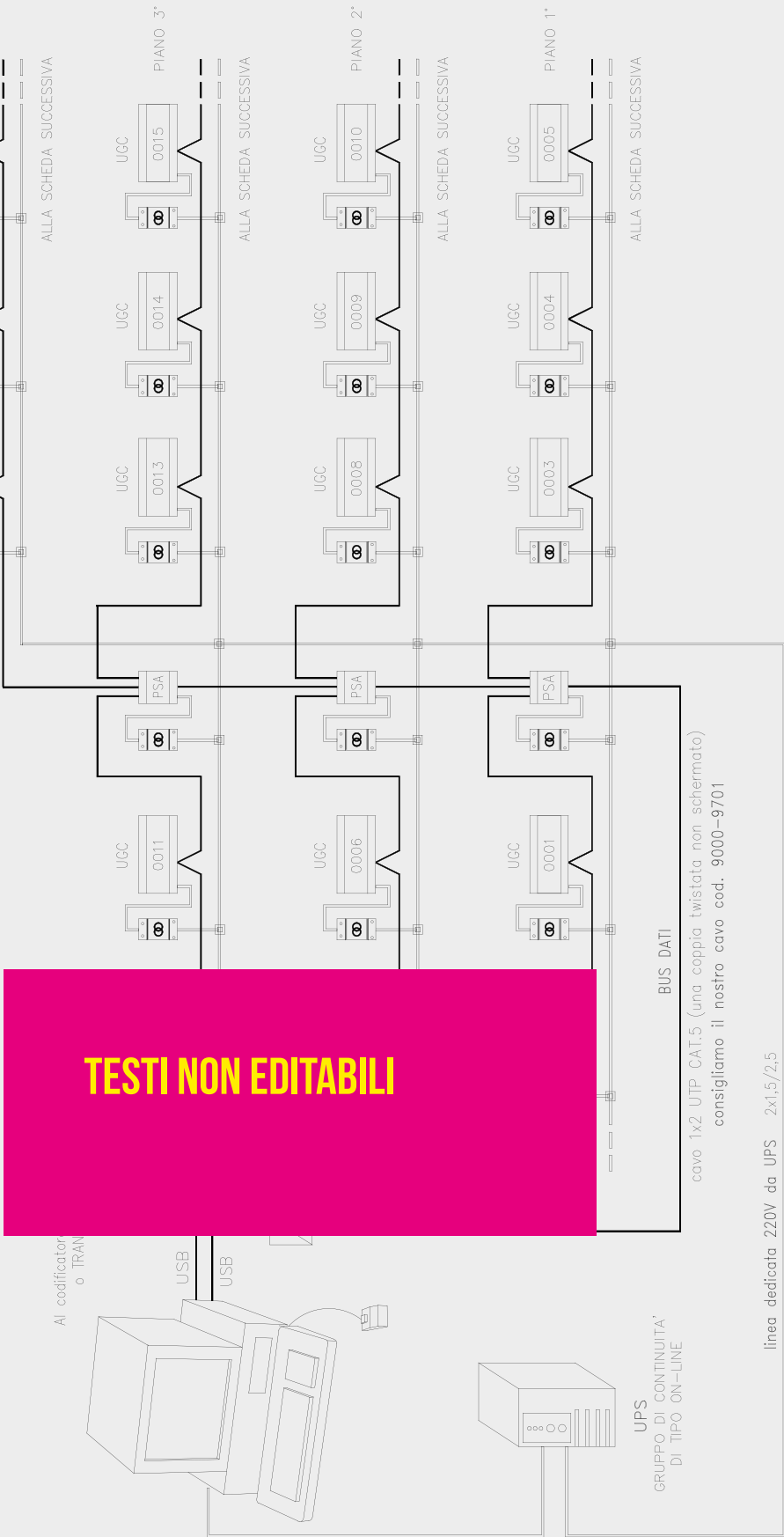


IMMAGINE IN BASSA

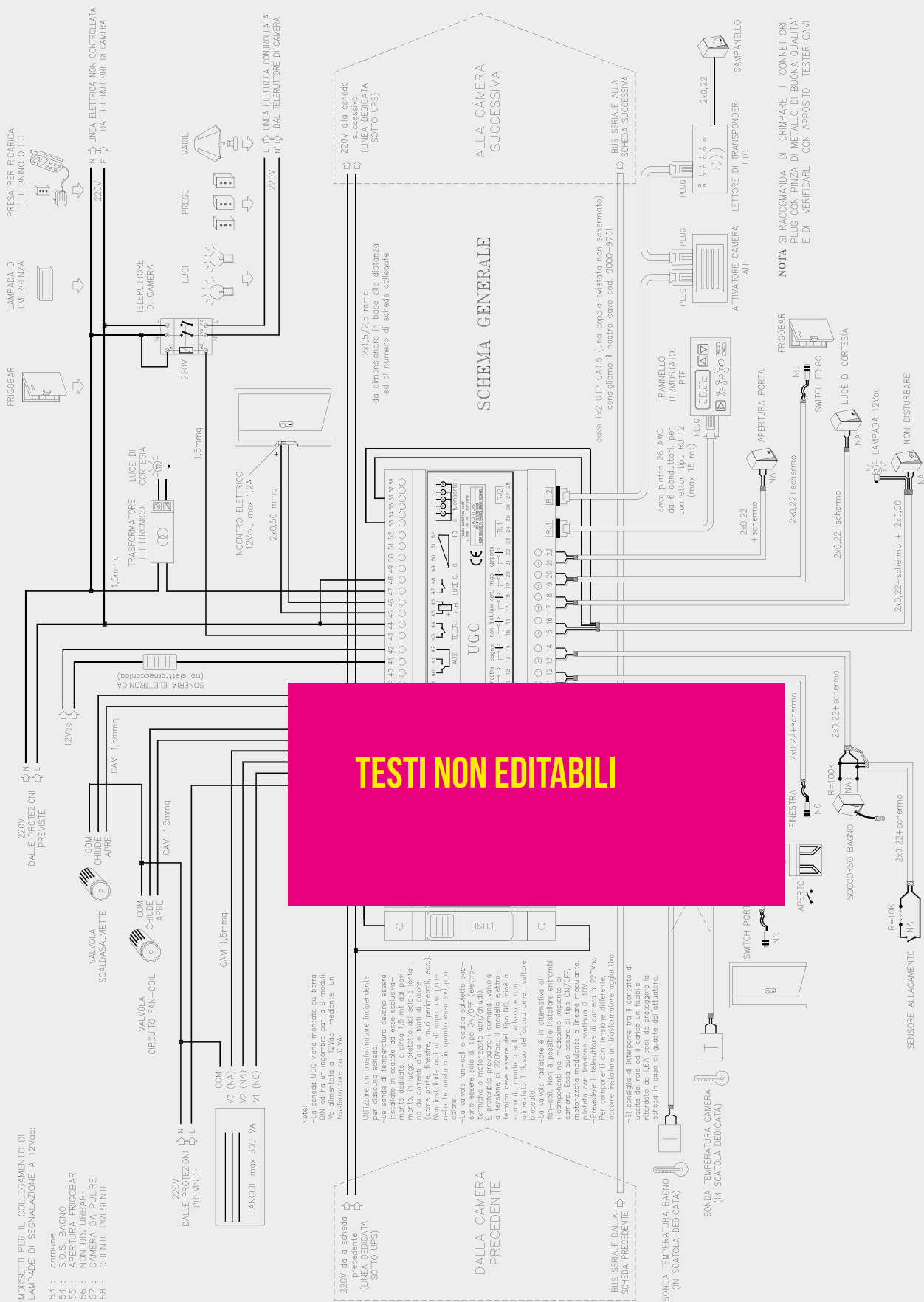
BUS AND POWER SUPPLY CONNECTION DIAGRAM

Caratteristiche minime del PC di supervisione:

- CPU Intel i3
- Hard Disk 250 GB
- Ram 4 GB
- Monitor a colori S-VGA
- 2 Porte USB dedicate al sistema MECA
- Scheda di rete Fast Ethernet 10/100 Mbps
- Mouse e Tastiera
- Scheda Audio e Diffusori Acustici
- Windows XP professional, Windows 7 professional, Windows 10 PRO



MULTI-WIRE ROOM DIAGRAM





AS

AIC-M



LCC-M

LTC-M





megaM

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

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 signalings: 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" luminous 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



* Civil series › p. 97



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.

TRANSPONDER CARD READER WITH SYNOPTIC

LTC-M

cod. 6200-113000



* Civil series › p. 97



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.

ROOM ACTIVATOR STANDARD TYPE

AS

cod. 6100-121000



* Civil series › p. 97



It detects the presence of guests or staff into the 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: 0.10Kg. Depth 44mm.

INTELLIGENT ROOM ACTIVATOR FOR CHIP CARD

AIC-M

cod. 6200-123000



* Civil series › p. 97



It detects the presence of guests or staff into the 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 connected to the UGC-M control unit by means of 6-wire cable terminated with RJ12 PLUG. Weight: 0.10 Kg. Depth 44mm.

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.

MEGA-M ROOM MANAGEMENT SOFTWARE

SWG-M

SWG-M25 cod. 6200-181025
Room management software from 1 to 25 rooms

SWG-M50 cod. 6200-181050
Room management software from 26 to 50 rooms

SWG-M75 cod. 6200-181075
Room management software from 51 to 75 rooms

SWG-M100 cod. 6200-181100
Room management software from 76 to 100 rooms

SWG-M150 cod. 6200-181150
Room management software from 101 to 150 rooms

SWG-M200 cod. 6200-181200
Room management software from 151 to 200 rooms

SWG-M250 cod. 6200-181250
Room management software from 201 to 250 rooms

SWG-M500 cod. 6200-181500
Room management software from 251 to 500 rooms

SWG-M1000 cod. 6200-181999
Room management 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 telerruptor 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 5 m for items LCC-M and LTC-M.

In case of strong inductive loads or led lights, use auxiliary relays to control them. Do not connect these loads directly to ITC units relays. 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:

- Operating system: Windows 7 professional or Windows 10 Pro.
- Intel i3 CPU
- 2500 GB hard disk
- 4 GB Ram
- S-VGA colour monitor
- 2 USB ports dedicated to MEGA system + 2 additional USB ports available
- Fast Ethernet 10/100 Mbps network board with Internet access, for potential remote assistance
- Mouse and keyboard
- Audio board and speakers

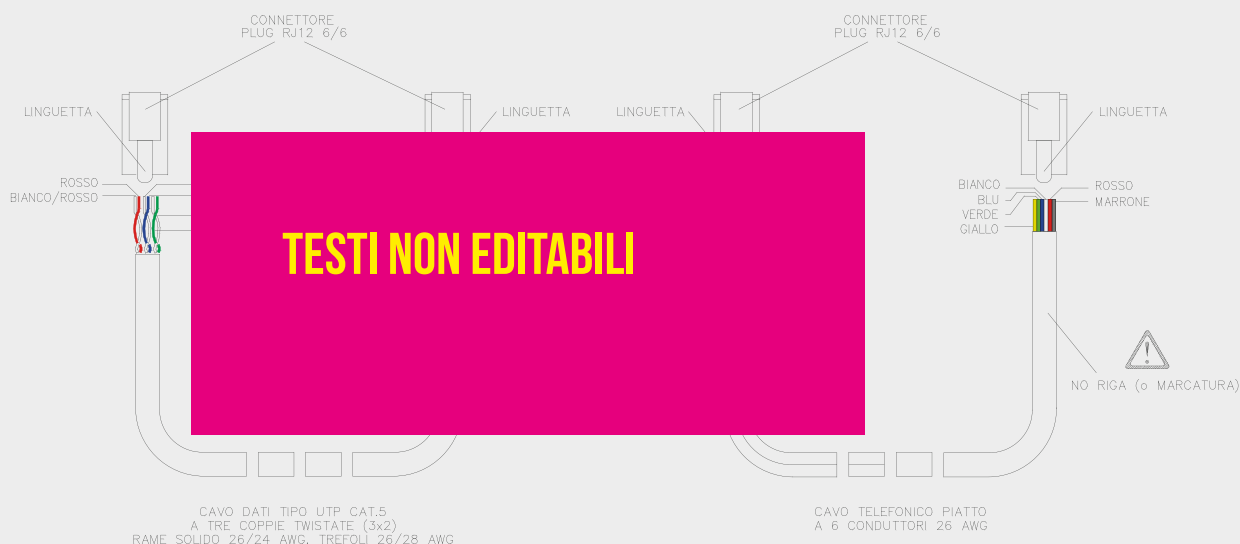
For correct operation the PC must be always on and must be dedicated to the MEGA-M technological management system.

The control software works at 800x600 pixel resolution.

CABLE HEADING FOR RJ45 CONNECTOR OF CHIP CARD OR TRANSPONDER READER



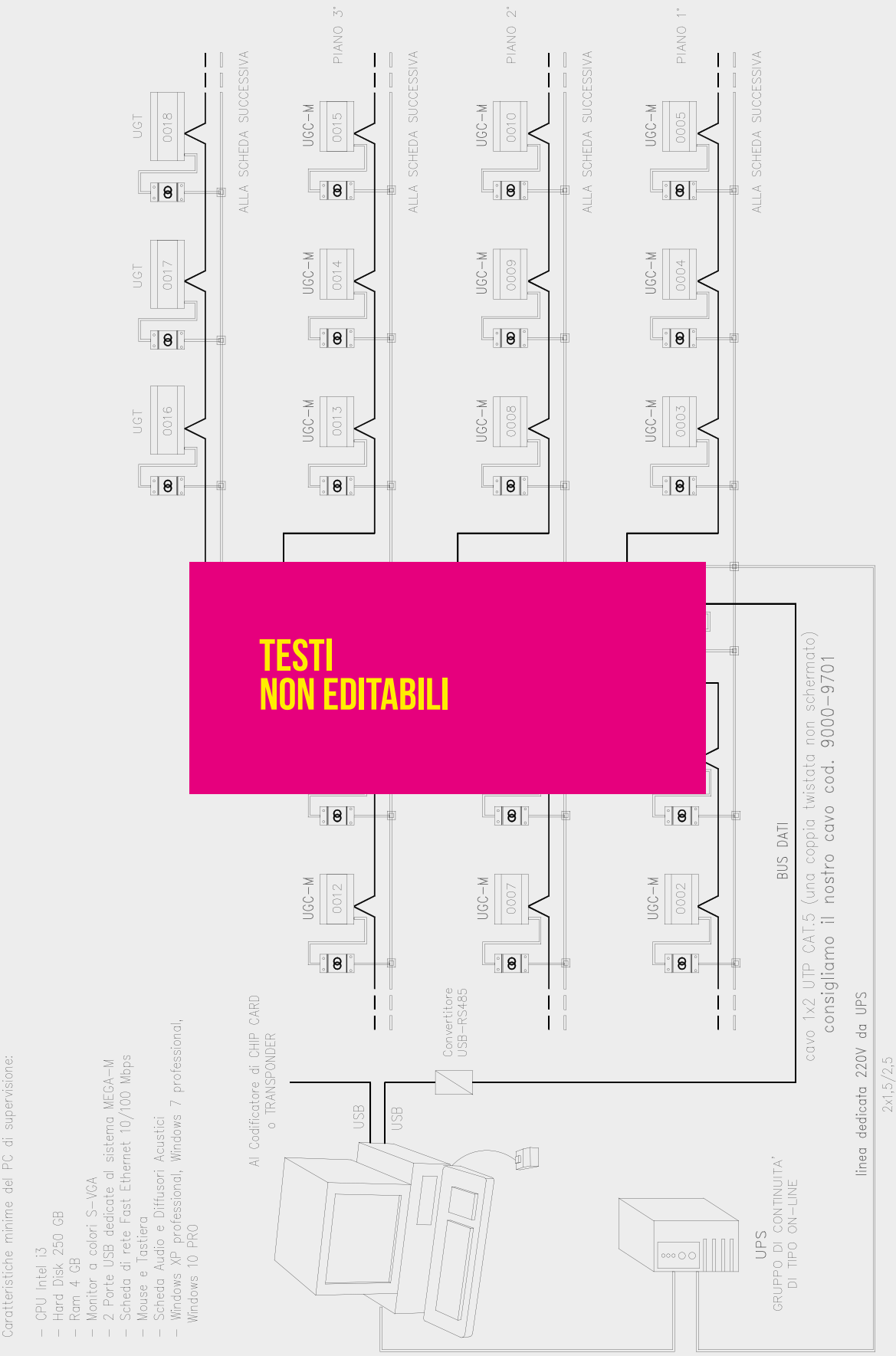
CABLE HEADINGS FOR RJ12 CONNECTOR OF ROOM ACTIVATOR



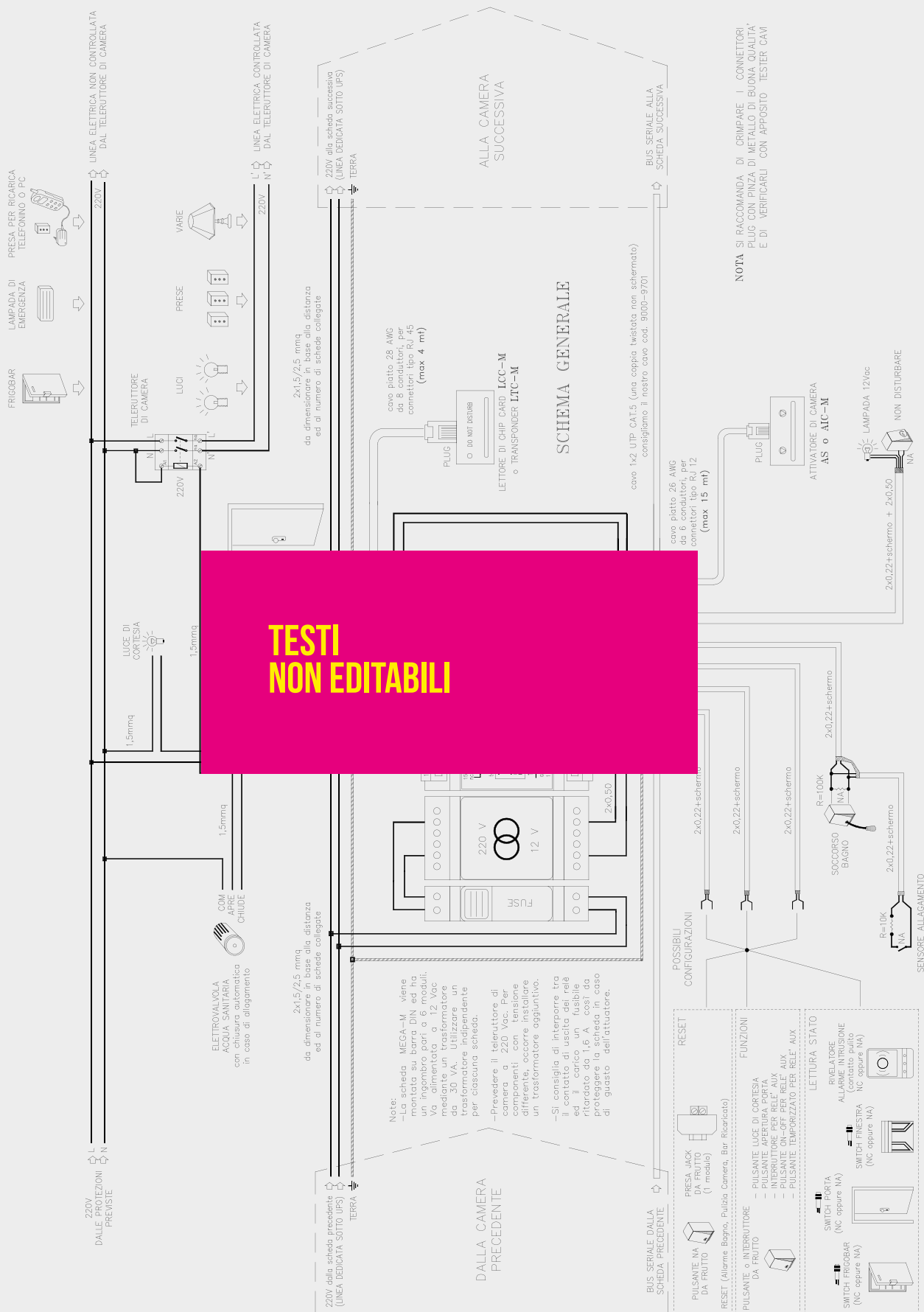
ATTENZIONE!

- UTILIZZARE SOLO I CAVI DESCRITTI IN FIGURA. PER QUALSIASI DUBBIO CONTATTARE LA ITC S.r.l.
- UTILIZZARE SOLO PLUG TELEFONICI TIPO RJ45 8/8 E RJ12 6/6 DI BUONA QUALITÀ'.
- UTILIZZARE UNA PINZA PER CRIMPARE DI OTTIMA QUALITÀ'. SONO MIGLIORI QUELLE COMPLETAMENTE METALLICHE.
- VERIFICARE I CAVI TRAMITE APPOSITO TESTER CAVI.
- I COLORI DESCRITTI NELLE FIGURE SONO INDICATIVI.

BUS SND POWER SUPPLY CONNECTION DIAGRAM



MULTI-WIRE ROOM DIAGRAM





megaRSA

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.



MI503



DCP2017/H



PTR



PTF



STI



PRL





System structure and main functions

SYSTEM COMPONENTS

- One dedicated computer (not supplied by I.T.C.) with Windows 7 professional or Windows 10 Pro operating system,
- USB/RS485 signal converter,
- Signal splitters,
- One UGC-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

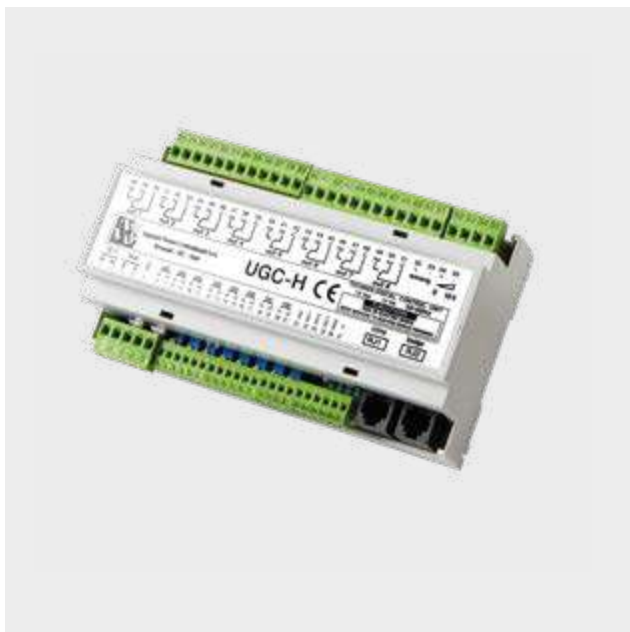
- Bathroom and bed headboard alarm detection, with switch on of door light and reassuring light,
- Local reset (with coded jack) or from operator station.
- Full-duplex handsfree communication with patient, with activation from operator station,
- Detection of alarms from common bathrooms,
- Recording 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.

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 half-duplex RS 485 standard.

Reprogrammable microcontroller of flash type.

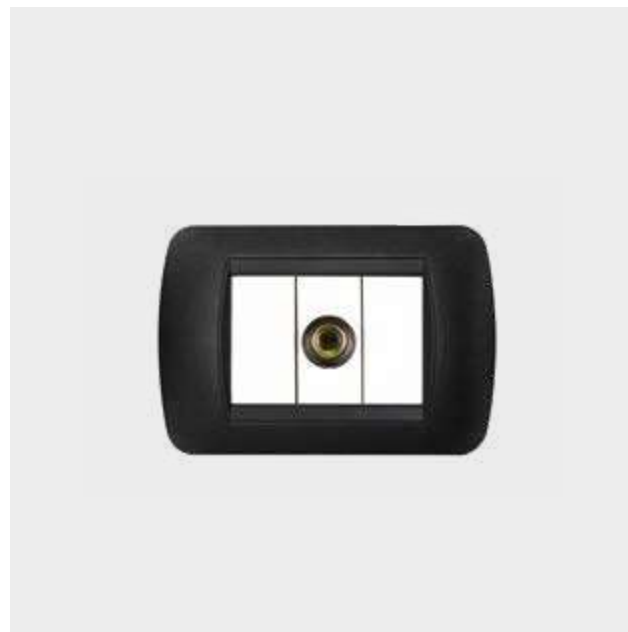
12Vac, 15VA power supply.

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.

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TEMPERATURE SENSOR

STI

cod. 6100-131000



* Civil series › p. 97



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.

FANCOIL THERMOSTAT PANEL

PTF

cod. 6100-133000



* Civil series › p. 97



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.

RADIATOR THERMOSTAT PANEL

PTR

cod. 6100-135000



* Civil series › p. 97



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.

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.

TECHNICAL SPECIFICATIONS

Input impedance Aux	100KΩ
Input sensitivity Aux	-12dB
Input impedance Mic.	15 KΩ
Output sensitivity	10 Ω
Max output level	+8dB -4Vpp
Power supply	220Vac
Power absorption	120VA
Distributed voltages	18Vdc/4A - 12Vdc/1A - 9Vdc/0.5A
Dimensions	230x60x210mm
Material	metal
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
Distributed voltage	18Vdc/4A
Dimensions	230x60x210mm
Material	metal
Colour	black
Weight	3,4Kg

PREAMPLIFIED DESKTOP MICROPHONE UNIT

BMCP / A

cod. 3200-221010



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
Material	plastic/metal
Colour	black/grey
Weight	1,4Kg

BOX 503 RECESSED MICROPHONE

MI503

cod. 3200-231000



* Civil series › p. 97



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 multiple civil series. Weight: 0.09 Kg.

TECHNICAL SPECIFICATIONS

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

BOX 503 RECESSED SPEAKER

DI503 / H

cod. 6400-103000



* Civil series › p. 97



Small-size speaker for installation in box 503 that is taken completely. The size of the loudspeaker permits a power of 3 W. Indicated for those rooms where there are space problems.

Equipped with CA10MP amplifier module to be housed separately. Available in multiple civil series.

TECHNICAL SPECIFICATIONS

RMS power	3W
Frequency response	220÷20000Hz
Impedance	8 Ω
Loudspeaker type	fullrange
Material	metal

10W AMPLIFIED CEILING-MOUNT SPEAKER

DC20 / H
cod. 6400-120101



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

TECHNICAL SPECIFICATIONS

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

10W AMPLIFIED WALL-MOUNT SPEAKER

DCP2017 / H
cod. 6400-241101



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.

TECHNICAL SPECIFICATIONS

Type	da incasso in controsoffitto
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bicono
Speaker impedance	4 Ω
Dimensions	195x166x55mm
Recessed hole dimensions	155x125mm
Material	ABS/metal
Colour	white, black, grey
Weight	1Kg

10W AMPLIFIED WALL-MOUNT SPEAKER

DP2512 / H
cod. 6400-251101



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.

TECHNICAL SPECIFICATIONS

Type	Sporgente da parete
Input impedance	10K Ω
Input sensitivity	400mV
RMS power	10W
Power supply	18Vdc
Absorption	200mA
Frequency response	120 ÷ 18000Hz
S.P.L. 1W@1m	93dB
Speaker type	4" bicono
Speaker impedance	4 Ω
Dimensions	250x120x73mm
Max. protrusion	73mm
Material	ABS
Colour	white, black, grey
Weight	1Kg

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-H

SWG-H25 cod. 6300-181025
Room management software from 1 to 25 rooms

SWG-H50 cod. 6300-181050
Room management software from 26 to 50 rooms

SWG-H75 cod. 6300-181075
Room management software from 51 to 75 rooms

SWG-H100 cod. 6300-181100
Room management software from 76 to 100 rooms

SWG-H150 cod. 6300-181150
Room management software from 101 to 150 rooms

SWG-H200 cod. 6300-181200
Room management software from 151 to 200 rooms

SWG-H250 cod. 6300-181250
Room management software from 201 to 250 rooms

SWG-H500 cod. 6300-181500
Room management software from 251 to 500 rooms

SWG-H1000 cod. 6300-181999
Room management software from 501 to 1000 rooms

SOFTWARE INTERFACE FOR CORDLESS TELEPHONES

SW / C

cod. 6300-182000

It allows to send calls and warnings from MEGA-RSA system to staff cordless telephones; this way, they can be promptly informed also when they are far from the control station.

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.

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.

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

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.(BUS dati, ingressi, ecc.)

The minimum requirements of the PC used to control the installation are as follows:

- Operating system: Windows 7 professional or Windows 10 Pro.
- Intel i3 CPU
- 2500 GB hard disk
- 4 GB Ram
- S-VGA colour monitor
- 2 USB ports dedicated to MEGA system + 2 additional USB ports available
- Fast Ethernet 10/100 Mbps network board with Internet access, for potential remote assistance
- If you implement an interface with an air-conditioning system, we recommend a second dedicated Ethernet network board
- Mouse and keyboard
- Audio board and speakers

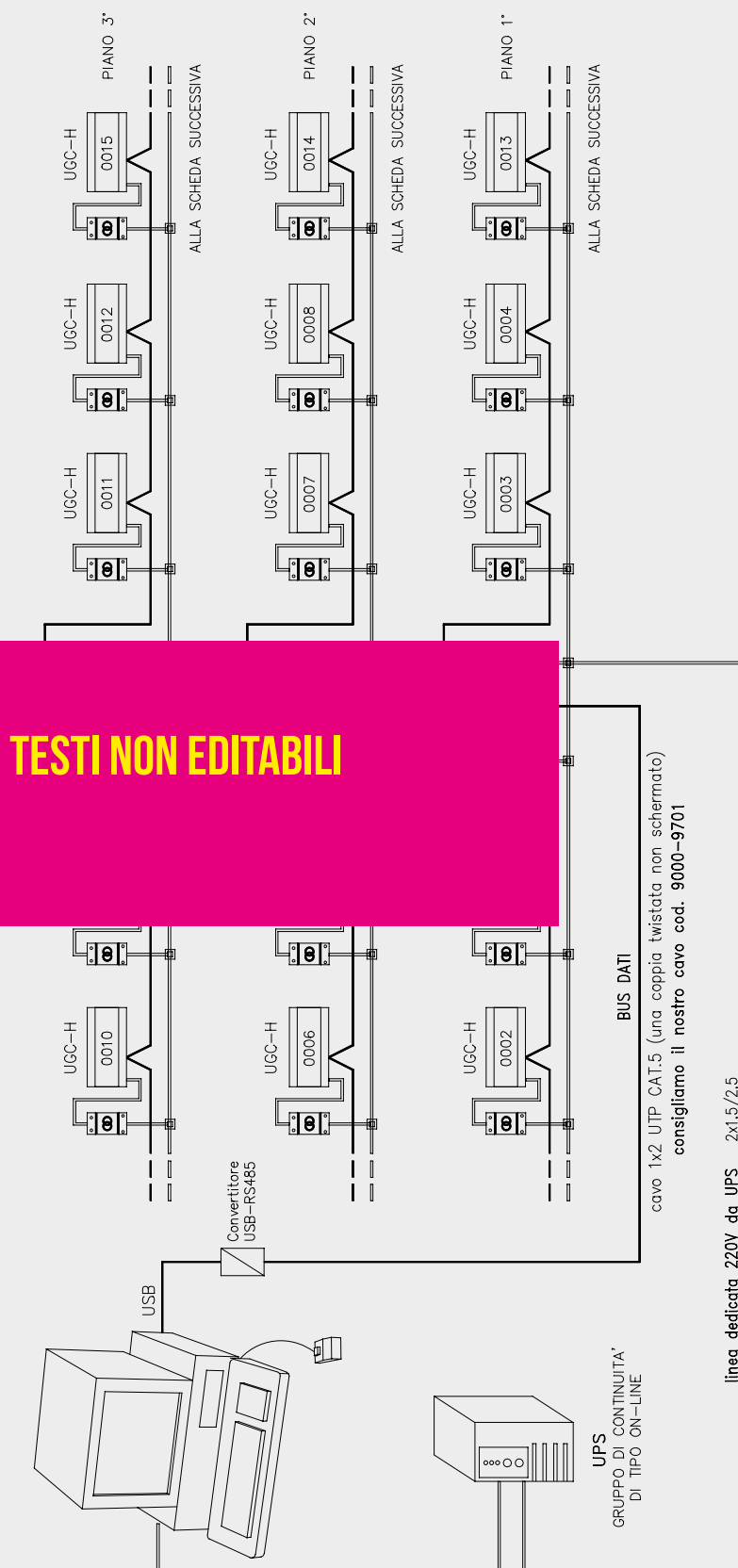
For correct operation the PC must be always on and must be dedicated to MEGA-RSA system.

The control software works at 800x600 pixel resolution.

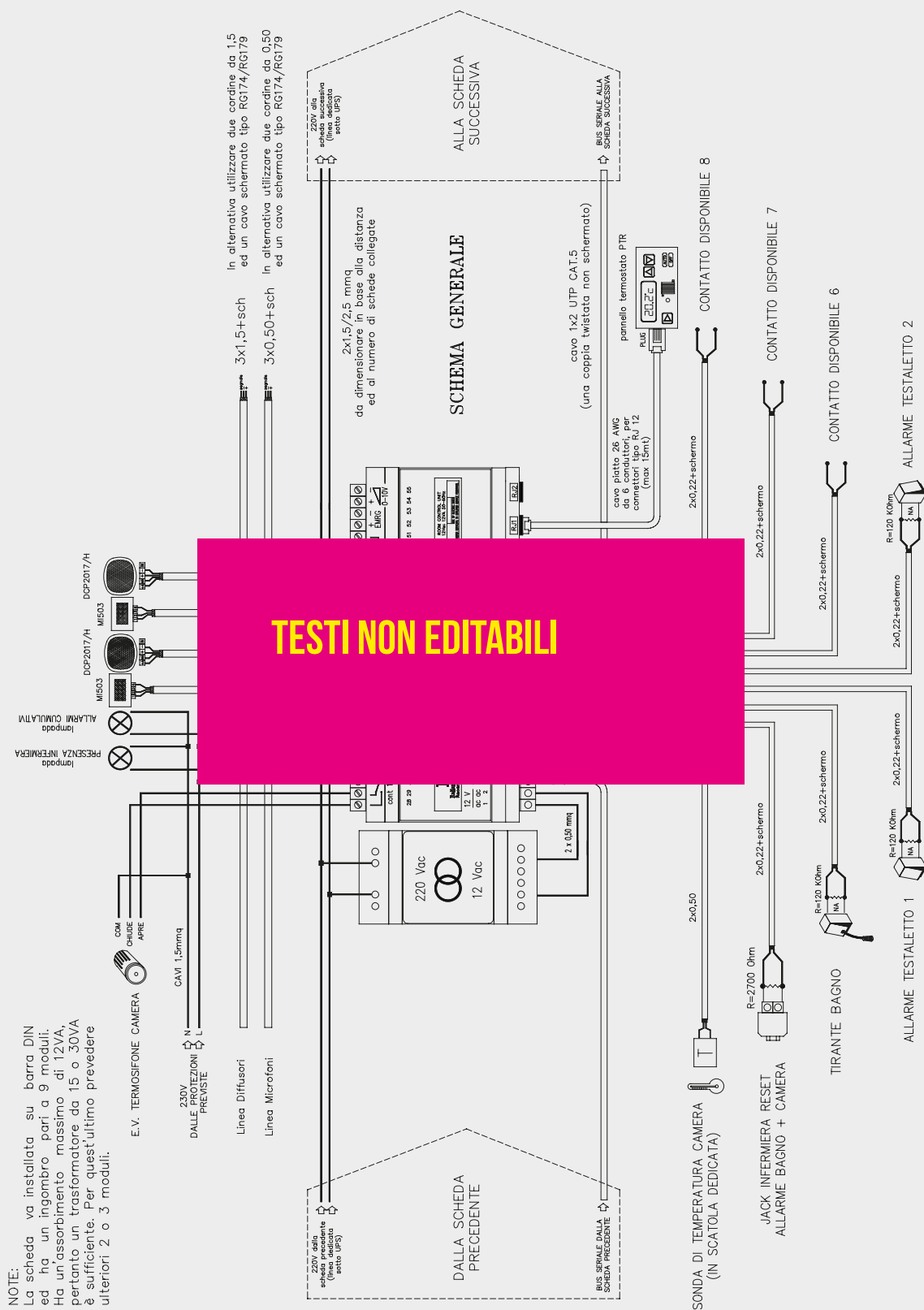
BUS AND POWER SUPPLY CONNECTION DIAGRAM


Caratteristiche minime del PC di supervisione:

- CPU Intel i3
- Hard Disk 250 GB
- Ram 4 GB
- Monitor a colori S-VGA
- 1 Porta USB dedicata al sistema MEGA-RSA
- + 2 ulteriori porte USB disponibili
- Scheda di rete Ethernet 10/100 Mbps con accesso a Internet
- Mouse e Tastiera
- Scheda audio e diffusori acustici
- Windows 7 professional o Windows 10 PRO



MULTI-WIRE ROOM DIAGRAM





mega tech

MEGA TECH system allows the monitoring and the centralised management of technological systems, with the purpose of safety increasing and wastefulness reducing. These are the main functions:

- status, anomalies and alarms detection
- remote and/or timed activations
- energy consumptions calculation
- openings and access control
- events memorization

Thanks to a versatile and intuitive software, which can be customized and adapted to the specific needs, the operator will have the possibility to manage the system in a simple and efficient way, avoiding inefficiencies and time wastefulness. Specific interfaces allow dialogue and information exchange with other systems.

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, half-duplex 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



* Civil series > p. 97



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. Depth: 53 mm.

TRANSPONDER CARD READER FOR COMMON AREAS

LTZ

cod. 6500-117000



* Civil series › p. 97



It enables access to common areas by transponder 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. Depth: 53 mm.

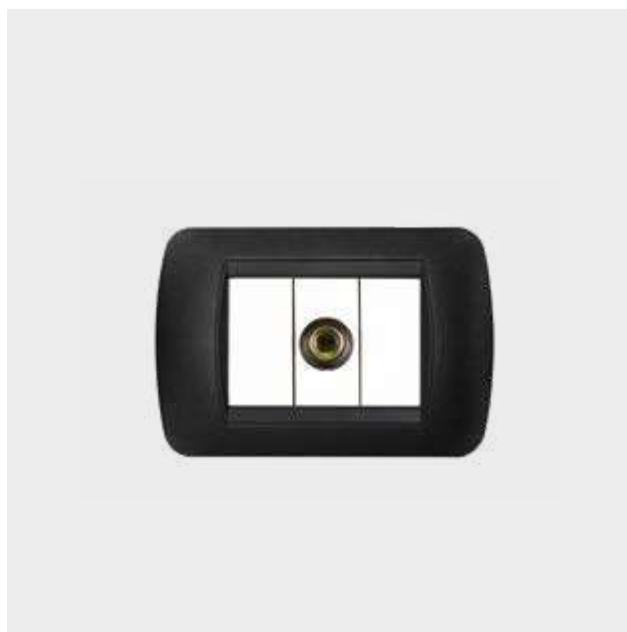
SOCKET FOR LOCAL RESET

PRL

cod. 6300-141000



* Civil series › p. 97



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.

TEMPERATURE SENSOR

STI

cod. 6100-131000



* Civil series › p. 97



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.

FANCOIL THERMOSTAT PANEL

PTF

cod. 6100-133000



* Civil series › p. 97



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.

RADIATOR THERMOSTAT PANEL

PTR

cod. 6100-135000



* Civil series › p. 97



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.

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 popular air conditioning/heating systems.

TECHNOLOGICAL CONTROL UNITS MANAGEMENT SOFTWARE

SWG-T

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

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

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

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

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

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

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

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

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

IMPORTANT NOTICE

The UGC 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.

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.

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

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.(BUS dati, ingressi, ecc.)

The minimum requirements of the PC used to control the installation are as follows:

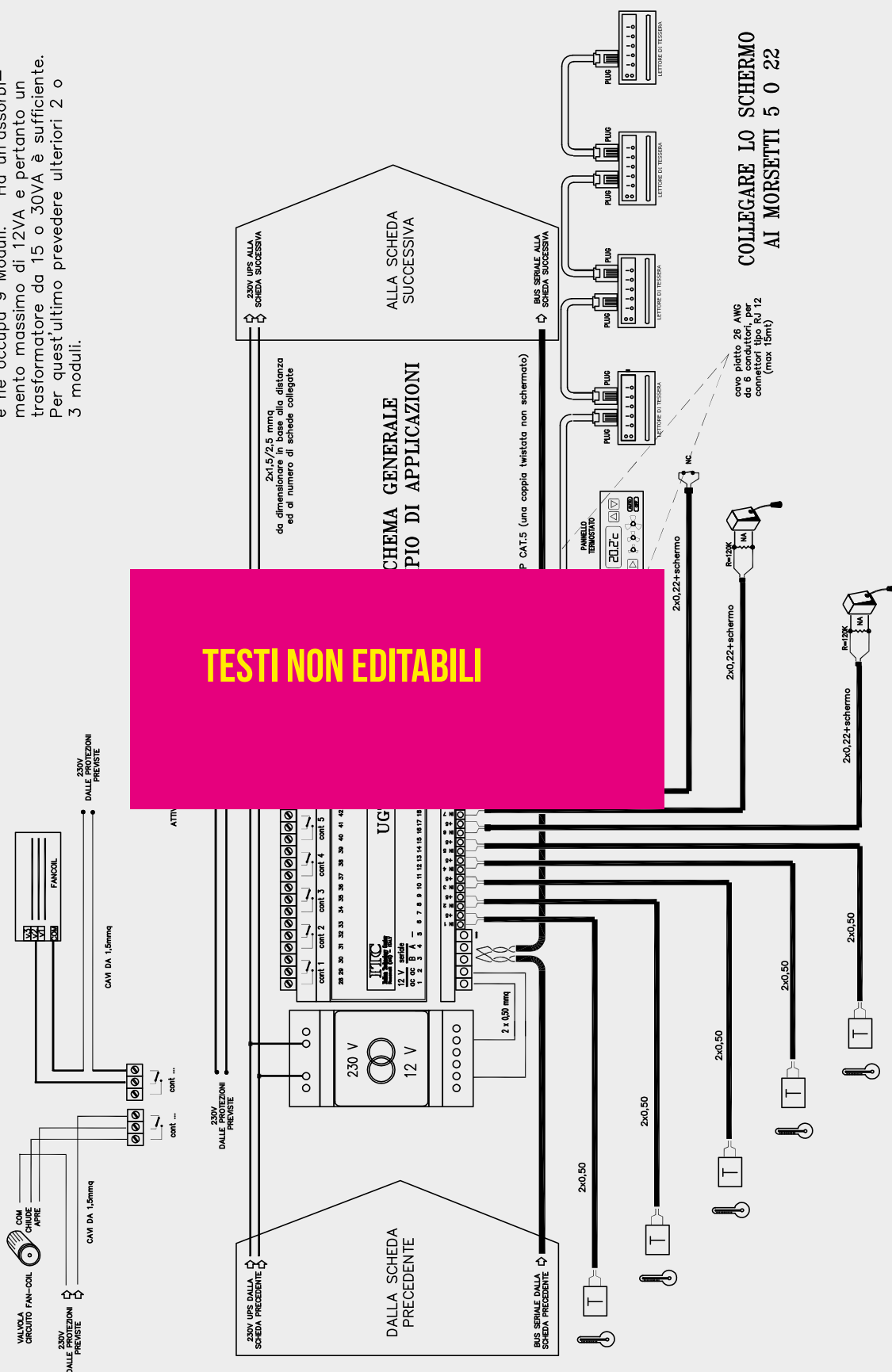
- Operating system: Windows 7 professional or Windows 10 Pro.
- Intel i3 CPU
- 2500 GB hard disk
- 4 GB Ram
- S-VGA colour monitor
- 2 USB ports dedicated to MEGA system + 2 additional USB ports available
- Fast Ethernet 10/100 Mbps network board with Internet access, for potential remote assistance
- If you implement an interface with an air-conditioning system, we recommend a second dedicated Ethernet network board
- Mouse and keyboard
- Audio board and speakers

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.

MULTI-WIRE DIAGRAM

Note:
La scheda viene montata su barra DIN e ne occupa 9 Moduli. Ha un'assorbimento massimo di 12VA e pertanto un trasformatore da 15 o 30VA è sufficiente. Per quest'ultimo prevedere ulteriori 2 o 3 moduli.





Accessories

Accessories, software and additional devices.

Necessary accessories for completing the system, spare parts and a series of additional software for any customization.

CHIP CARD WRITER

CC

cod. 6600-201010



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

TRANSPONDER CARD WRITER

CT

cod. 6600-203010



Transponder card reader/writer in desktop version, complete with connection cable to PC via USB port. Dimensions: 105x20x65 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: 54x96x58 mm. Weight 0.1 kg.

SIGNAL CONVERTER

CSU

cod. 6600-221020



It converts the signal from USB to RS485 half duplex standard. 220Vac, 5VA power supply. 2-ways extractable terminal for bus connection RS485. 3 signal led lights: red - power supply; blue - TX; green - RX. USB connecting cable included (male connector Type B - Type A). Dimensions: 105x25x57. Weight: 0.5 kg.

PROXIMITY CARD

STM

cod. 6700-235010



13.56MHz Mifare proximity card, 1K memory, credit card format, standard printing.
Dimensions: 54x85x0.8 mm. Weight 0.01 Kg.
Compatible with: EASYOPEN and MEGA-IP systems.

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. Compatible with: MEGA, MEGA-M and MEGA-TECH systems.

TRANSPONDER CARD

ST

cod. 6600-233010



125 KHz ISO 7816 transponder card, credit card format.
Dimensions (lxhxd): 54x1x85. Weight: 0.02 kg.
Compatible with: MEGA, MEGA-M and MEGA-TECH systems.

ROOM ACTIVATOR

AC

cod. 6600-241010



It detects the guest presence in the room by closing of a contact (i.e.: suite control) and activate the related room services. It is installed in the room electric panel and connected to the UGC unit through 6 conductors cable, ending with 6/6 telephone PLUG.
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

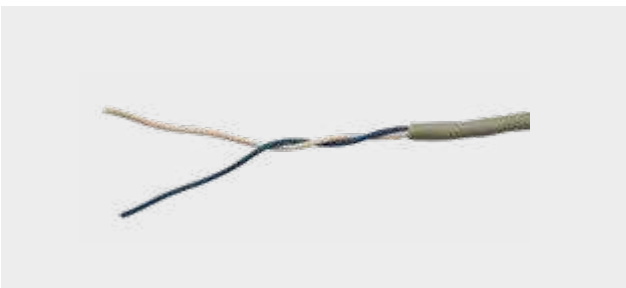


When inserted in the "AJ" room activator, it allows the system to detect the presence of the staff and activate specific services. It can manage max. 30 different names. Weight: 0.03 kg.

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



Frontal plate for electric door lock. Reversible model made of stainless steel.

VARIOUS SOFTWARES

UPDATE SOFTWARE

SW / A

cod. 6600-310010

Software upgrade for new implementations.

ADDITIONAL PLACEMENT SOFTWARE

SW / PA

cod. 6600-311010

Software for additional workstations. It allows for complete management of the installation also from additional PCs connected to the main computer via Ethernet network.

MAP SOFTWARE

SW / MP

cod. 6600-313010

Inclusion of floor map

CHARGE MANAGEMENT SOFTWARE

SW / GA

cod. 6600-315010

Software used to manage charges for access to specific facilities (i.e., gym, SPA, swimming pool, etc.)

GUESTS ACCESS MANAGEMENT SOFTWARE

SW / AV

cod. 6600-317010

Software used to manage access control for visitors. It allows to access hotel and relevant services (parking, meeting room, spa, swimming pool, gym, etc.) to visitors.

FIRE MESSAGES SOFTWARE

SW / CA

cod. 6600-319010

Module for data acquisition from fire detection panels. It allows for displaying on the supervision software of the MEGA system the signalling messages from fire detection panels (pre-alarm, alarm, anomaly, etc.). Incoming messages are indicated by an acoustic signal. Events are recorded in the historical database for later viewing and printing. The connection between panel and PC is made via RS232 serial port.

INTERFACES WITH FRONT-OFFICE PROGRAMMES

FRONT-OFFICE INTERFACE SOFTWARE

SW / OFFICE

cod. 6600-341010

ITC standard interface with front-office programmes

FIDELIO INTERFACE SOFTWARE

SW / FIDELIO

cod. 6600-343010

Interface with Fidelio front-office

ONQ INTERFACE SOFTWARE

SW / ONQ

cod. 6600-345010

Interface with OnQ front-office

ERICSOFT INTERFACE SOFTWARE

SW / ERICSOFT

cod. 6600-347010

Interface with Ericsoft front-office

GIALB INTERFACE SOFTWARE

SW / GIALB

cod. 6600-349010

Interface with Gialb front-office

MONETICA INTERFACE SOFTWARE

SW / MONETICA

cod. 6600-351010

Interface with Monetica front-office

INTERFACES WITH AIR CONDITIONING/HEATING SYSTEMS

AIR CONDITIONING INTERFACE SOFTWARE

SW / CLIMA

cod. 6600-381010

Lon Works® Interface to Daikin, Samsung and LG air conditioning systems, including iLon100 Lon Works® converter.

MITSUBISHI AIR CONDITIONING INTERFACE SOFTWARE

SW / XML

cod. 6600-383010

XML software interface to Mitsubishi air conditioning system.

FCC AIR CONDITIONING INTERFACE SOFTWARE

SW / FCC

cod. 6600-385010

Software Interface to FCC air-conditioning systems based on radiant panels.

COSTER AIR CONDITIONING INTERFACE SOFTWARE

SW / COS

cod. 6600-387010

Software Interface to Coster floor-heating systems.

TOSHIBA AIR CONDITIONING INTERFACE SOFTWARE

SW / TOSHIBA

cod. 6600-382010

Software interface to Toshiba air conditioning systems, excluding iLon100 Lon Works® converter.

CONVERTER

CLW

cod. 6600-380010

iLon100 converter for Lon Works® interfaces.

Icons legend



BLUETOOTH



SUITABLE FOR DIN RAIL



CUSTOMIZABLE COLOUR



CUSTOMIZABLE LOOK



ETHERNET WIRING



EASY INSTALLATION



PRODUCT FOR BOX 503



WATERPROOF

Civil series

PRODUCTS

LCC	6100-111000
LTC	6100-113000
AJ	6100-127000
AS	6100-121000
AIC	6100-123000
AIT	6100-125000
STI	6100-131000
PTF	6100-133000
PTR	6100-135000
LCZ	6500-115000
LTZ	6500-117000
LCC-M	6200-111000
LTC-M	6200-113000
AIC-M	6200-123000
PRL	6300-141000
MI503	3200-231000
DI503	6400-103000

- immediately available
- available on request

CIVIL SERIES

AVAILABILITY

AVE	Blanc	white	●
	Noir AX	black	●
	Banquise	white	○
	Domus 100	white	●
	RAL	white	○
	LIFE 44	black	○
TICINO	Living Intern.	black	●
	Light	white	●
	Luna	white	○
	Ligh-Tech	silver	●
	Matix	white	●
	Axolute	white	●
GEWISS	Axolute	black	●
	Playbus	white	●
	Playbus	black	●
	Chorus	white	●
	Chorus	silver	●
	Chorus	black	●
LEGRAND	System 9000	white	○
	System 9000	black	○
	Cross	white	○
	Vela	black	○
SIEMENS	Delta Futura	white	●
	Delta Futura	black	●
VIMAR	8000	white	○
	Idea	white	●
	Idea	black	●
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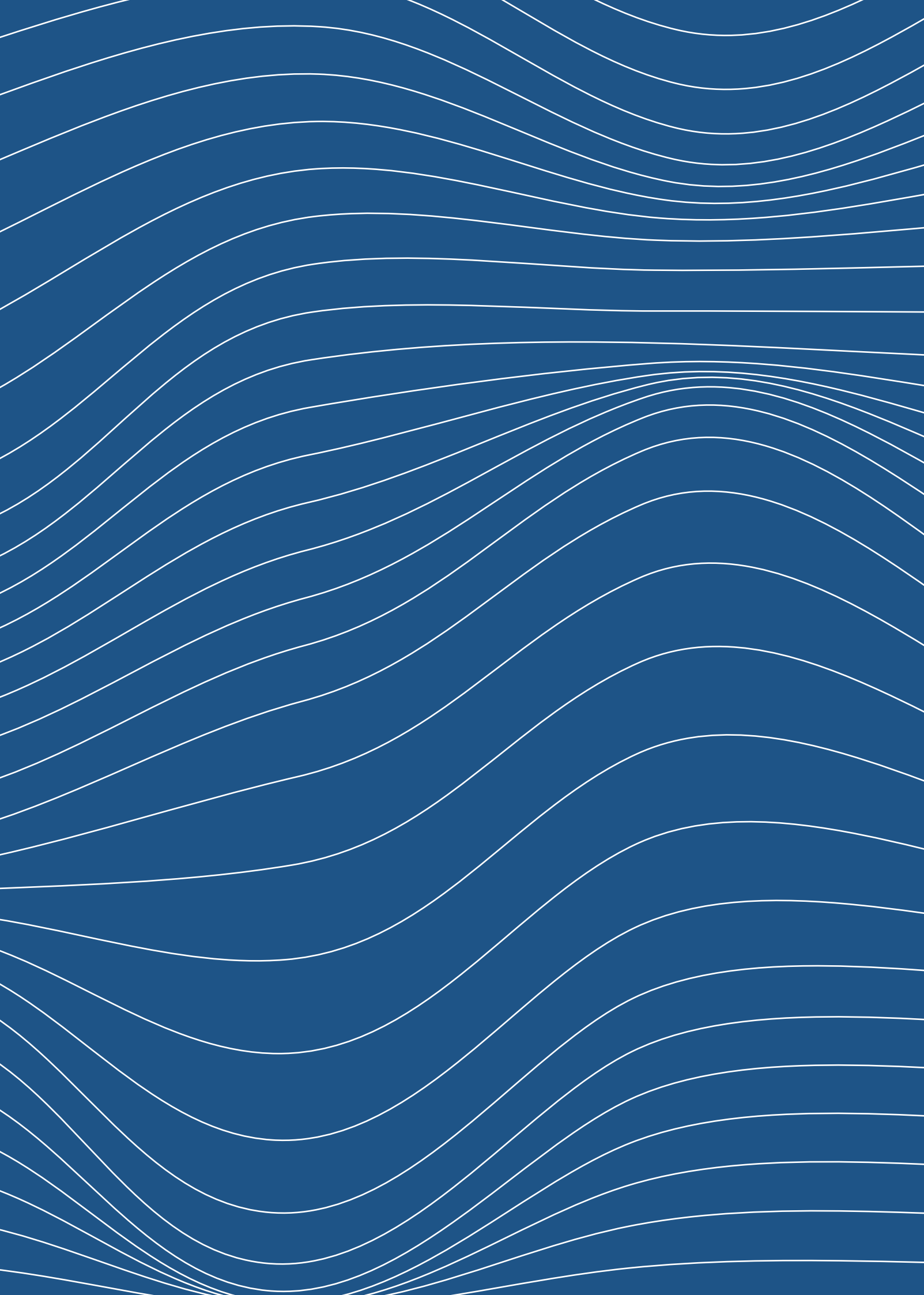


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