



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 in 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:

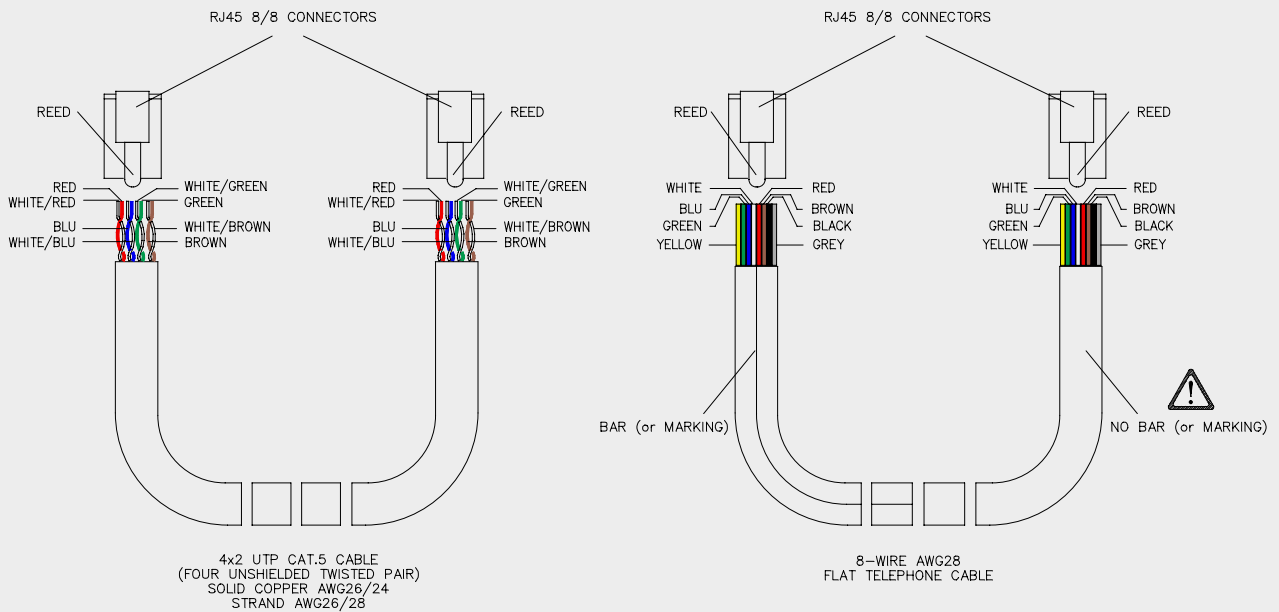
- Operating system: Windows 7 professional or Windows 10 Pro.
- Intel i3 CPU
- 2500 GB hard disk
- 4 GB Ram
- S-VGA colour monitor
- 2 USB ports dedicated to MEGA system + 2 additional USB ports available
- Fast Ethernet 10/100 Mbps network board with Internet access, for potential remote assistance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

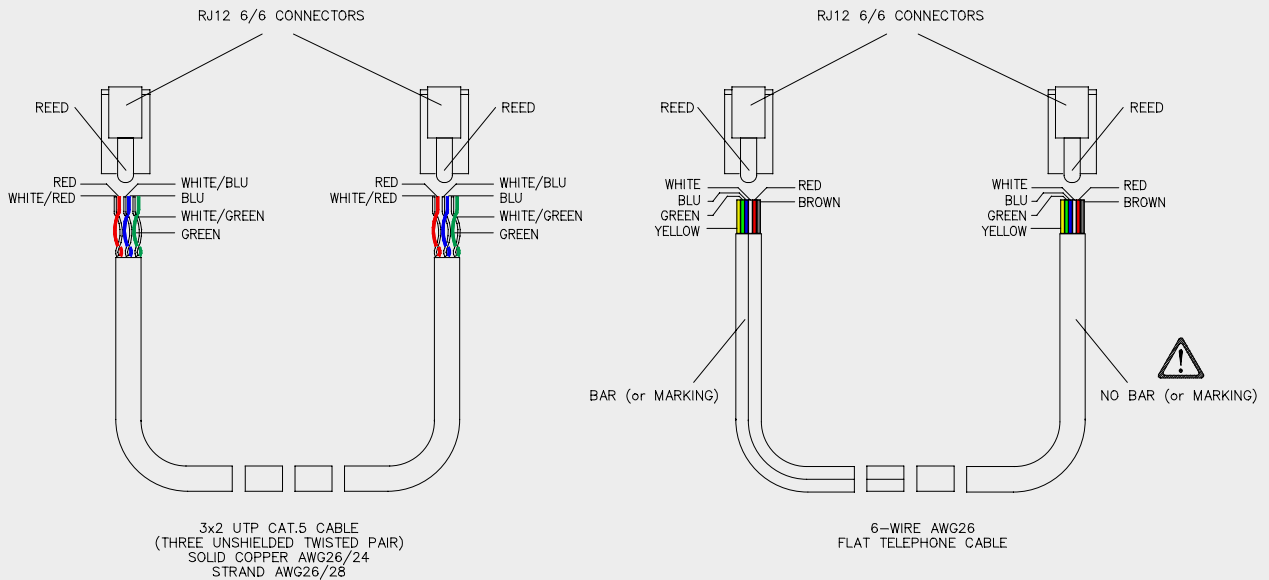
CABLE HEADING FOR RJ45 CONNECTOR OF CHIP CARD OR TRANSPONDER READER

CABLE HEADERS FOR CARD READER CONNECTION



CABLE HEADINGS FOR RJ12 CONNECTOR OF ROOM ACTIVATOR

CABLE HEADERS FOR ROOM ACTIVATOR CONNECTION



WARNING!

- ONLY USE CABLES DESCRIBED IN DIAGRAM. IF IN DOUBT CONTACT ITC TECHNICAL SUPPORT.
- ONLY USE TOP QUALITY RJ12 6/6 AND RJ45 8/8 CONNECTORS.
- USE TOP QUALITY CLAMP FOR CRIMPING. METAL ONES

BUS SND POWER SUPPLY CONNECTION DIAGRAM

Minimum PC specifications:

- CPU Intel Core i3
- 500 GB HDD/SSD
- 8 GB RAM
- S-VGA colour monitor
- 2 USB ports available
- Fast Ethernet 10/100 Mbps card
- Mouse and keyboard
- Sound card and loudspeakers
- Windows 10 PRO

