



EAN code
mini CU3-07M: 8595188176262

Technical parameters **CU3-07M**

Indication LED STATUS

Green LED RUN:	Flashing - communication with BUS, ON - no communication
Red LED ERR:	Flashing - no project, ON - unit STOP

Communication

iNELS BUS

Indication (LED BUS):	green - unit status indication red - BUS fault indication
Maximum number of units:	max. 32 units to one BUS line
Maximum cable length:	max. 300 m (depends on power loss)

BUS RS-485

Indication (LED RS 485):	green - indication communication red - fault indication
Maximum cable length:	max. 300 m

Ethernet

Connector:	RJ45
Communication speed:	100 Mbps
Indication of the Ethernet (LED ETH):	green - Ethernet communication yellow - Ethernet speed 100 Mbps
The default IP address:	192.168.1.1

Button RESET

Restart:	short press
Reset (Factory Reset):	press the button to apply power, release the button 10 s after power is applied

Power supply

Supply voltage/tolerance:	27 V DC, -20/+10 %
Rated current:	55 mA (at 27 V DC)

Operating conditions

Operating temperature:	-20 to +55 °C
Storage temperature:	-25 to +70 °C
Humidity:	max. 80%
Protection degree:	IP20 devices, IP40 with cover in the switchboard
Overvoltage category:	II.
Pollution degree:	2
Operating position:	any
Installation:	to the switching board on the EN60715 DIN rail
Design:	1-MODULE
Terminal:	max. 2.5 mm ²

Dimensions and weight

Dimensions:	94 x 17.6 x 64 mm
Weight:	72 g

- CU3-07M is a small central unit of 1M size for managing small projects such as a hotel room, small apartment or a cottage.
- Configuration is performed by software iNELS Designer and manager iDM3, or is possible to use supervisor controlling by ASCII communication with CU3.
- The unit can work as a stand-alone master for installation or as a slave for the supervisor unit CU3-0xM.
- The CU3-07M is equipped with one BUS line to which up to 32 iNELS BUS units can be connected.
- For communication and configuration, the unit is equipped with an RJ45 connector with a 100 Mbps Ethernet port.
- For ModBus communication, e.g. with fan coils, air-condition and thermostats in the hotel room, the unit is equipped with ModBus port.
- CU3-07M in 1-MODULE version is designed for mounting into a switchboard, on DIN rail EN60715.

CU3-01M, CU3-02M, CU3-05M, CU3-06M, CU3-07M

Installation BUS:

- Two-wired BUS with a free topology (closing in circle is permitted).
- With its own modulated communications on the DC voltage supply.
- One line of BUS allows you to connect up to 32 units of iNELS3.
- The current load of one line is max. 1 A. When connecting units which takes more than 1A, BPS3-01M with 3 A sampling can be used.
- Maximum length of the BUS is approximately 300 m (depends on the voltage drop).
- Recommended cable:
 - iNELS BUS Cable - Twisted pair of copper wires with size of AWG20 wire (diameter of 0.8 mm, cross-section of 0.5 mm²).

System BUS EBM:

- Used to connect the CU3-0XM central unit with MI3-02M external masters, GSM communicator GSM3-01M or converter DALI/DMX EMDC-64M.
- EBM has strictly linear topology and wires are connected to terminals EBM+ and EBM-, wires can not be interchanged.
- Max. length of the line of EBM is 500 m.
- The EBM BUS has to be terminated at both ends.
- This termination has to be inserted between terminals and is included in central units packages and it is necessary to insert between terminals EBM+ and EBM-.
- Recommended cabling:
 - CAT5e UTP and higher, or FTP CAT5e and higher or STP CAT5e and higher.
- The configuration of units and the whole system is done via Ethernet, through configuration software - iNELS3 Designer & Manager (iDM3), which is designed for operating systems Windows 7, Windows 8 and Windows 10.
- The central unit features two communication protocols:
 - ELKONET - to communicate with Connection Server or directly with the application iHC.
 - ASCII - communication with third systems and integration with BMS (Building Management Systems), for example Niagara 4 or FlowBox.
- Supported Software:
 - Parameterization, configuration, control and visualization: iNELS3 Designer & Manager (iDM3).
 - iRidium mobile
 - Niagara Frameworks
 - Flowbox
 - Promotic
- By means of iDM3, you can update firmware of central units and peripheral units connected by BUS.