CU3-01M, CU3-02M | Central unit

EAN code
CU3-01M: 8595188132220
CU3-02M: 8595188132398

Technical parameters	CU3-01M	CU3-02M
LED Indication		
Green LED RUN:	Flashing - communication with BUS, ON - no communication	
Red LED ERR:	Flashing - no project, ON - unit STOP	
OLED display	displays the current status and settings	
Type:	color OLED	
Resolution:	128x128/1:1 aspect ratio	
Visible area:	26x26 mm	
Controlling:	using arrows	
The internal real-time clock:	accuracy: 1s/day at 23 °C	
Inputs		
Inputs:	4x NO or NC to GND (-)	
	2x analogue inputs 0÷30	
Outputs		
Output:	relay output- NO/GND	
Number of connected units (directly to the CU3-01M (02M):	max. 64 (2x32)	
Expansion possibilities external BUS master:	up to 576 units (CU3-01M (02M) and 8x MI3-02M)	
Communication		
iNELS BUS		
Maximum number of units:	max. 32 units to one BUS line	
Maximum cable length:	max. 300 m (depends on power loss)	
System BUS EBM		
Maximum cable length:	max. 500 m	
Number of connected ext. masters:	up to 8 (regards to increasing the cycle turns)	
Ethernet		
Connector:	RJ45 on the front panel	
Communication speed:	100 Mbps	
Indication of the Ethernet:	green - Ethernet communication	
	yellow - Ethernet speed 100 Mbps	
The default IP address:	192.168.1.1 (the IP address can be changed in the menu using the display and buttons)	
Power supply		
Supply voltage/tolerance:	27 V DC, -20/+10 %	
Dissipated power:	max. 3 W	
Rated current:	110 mA (at 27 V DC)	
Operating conditions		
Working temperature:	-20 to +55 °C	
Storage temperature:	-25 to +70 °C	
Humidity:	max. 80%	
Degree of protection:	IP20 devices, IP40 with cover in the switchboard	
Overvoltage category:	II.	
Degree of pollution:	2	
Operating position:	any	
Installation:	to the switching board on the EN60715 DIN rail	
Design:	6-MODULE	
Terminal:	max. 2.5 mm^2	
Dimensions and weight		
Dimensions:	90 x 105 x 65 mm	
Weights:	288 g	291 g

- CU3-01M and CU3-02M are central units of the iNELS system and mediators, between user software interface and controllers, units and actuators connected to the BUS.
- It's possible to directly connect up to 2 lines of BUSes in to CU3-01M and CU3-02M, and on each BUS we can connect up to 32 iNELS3 units.
- The main difference between CU3-02M and CU3-01M is that CU3-02M is moreover equipped by RF module which enables communication with selected units from iNELS RF Control system.
- User´s project and retentive data are stored in a non-volatile internal memory hereby data are backed up without the supply voltage. Real time clock (RTC) backup for 10 days.
- Power supply controlling system - network voltage and the status of the backup battery.
- Possibility of setting time synchronization via NTP server.
- The RJ45 Ethernet port's connector is located on the front panel of the unit, the transmission speed is 100 Mbps.
- For CU3-01M (02M) it is possible to use 4 potential-free inputs for connecting external controllers (buttons, switches, sensors, detectors, etc.) and 2 analog inputs 0 - 30 V.
- CU3-01M (02M) comes with OLED display that shows the current status and enables settings (network settings, date, time, service) of the central unit CU3-01M (02M).
- Movement in the menu CU3-01M (02M) using arrows on the front panel.
- CU3-01M (02M) in 6-MODULE are designed for mounting into a switchboard on the EN60715 DIN rail.

iNELS RF Control interface for CU3-02M

Communication protocol:	RF Touch Compatible
Transmitting frequency:	866 MHz/868 MHz/916 MHz
Signal transmission methods:	bidirectionally addressed message
Output for RF antenna:	SMA connector*
RF antenna:	1 dB (part of package)
Free space range:	up to 100 m

* Max Tightening Torque for antenna connector is 0.56 Nm.