

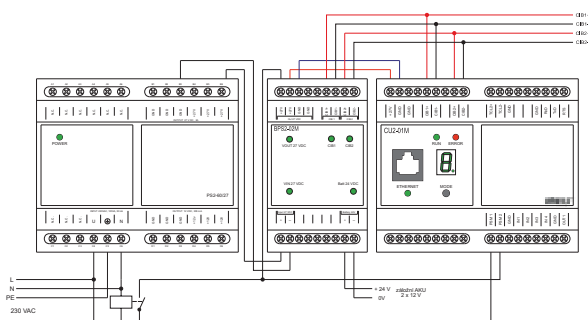
# INELS – basic module

Type	DI	DO	AI	AO	Comm
<b>CU2-01M</b>	<b>4x + 1x</b>		<b>1x</b>	<b>2x</b>	2x CIB Ethernet 10/100, RS-232, TCL2

## Basic features

- Basic module and heart of the INELS system.
- It is based on the design of basic module FOXTROT and the concept of two wire bus CIB (Common Installation Bus)
- Basic module CU2-01M is designed for residential house and other building control, where quick parameterization without programming skill is emphasized.
- All standard and frequently used functions in building control are available in IDM – software running on PC.
- IDM is designed to configure network of CIB units – sensors and actuators and to set their interactions based on events.
- Among standard functions you can find time schedule for each room, switch on/off the light immediately or with delay, short or long pushbutton click, dimming, alarm handling, sending and receiving SMS, correction of temperature, grouping of lights and switching actuators etc.
- Built in web server enables to monitor or to control all the system locally or from internet network.
- It has very low consumption.

## Connection example



## Inputs

No. of inputs	4x no potential contact
No. of inputs for power supply monitoring	1x DI 24 V 1x AI (0 ÷ 30 V for battery monitoring)

## Relay outputs

No. of outputs	1x
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## Communication

Ethernet supported protocols	1x10/ 100Base TX TCP/IP, UDP/IP, HTTP
System I/O bus	1x TCL2 (RS-485, 345 kbps)
Installation bus	1xCIB (19.2 kbps) (Common installation bus)

## Connecting

- Ethernet on RJ45 connector enables to connect notebook or PC directly or via LAN using the standard UTP CAT5 cables.
- All other connections can be done on screw terminals.
- Basic module has 2 masters of CIB. There must be added BPS2-02M between power supply and CIB terminals on basic module to create full functional CIB with communication and power supply. Up to 64 CIB units can be connected to 2 CIB masters embedded in basic module.
- Other 4 CIB masters can be added via TCL2 bus available on basic module by MI2-02M modules. Each module has 2 CIB masters. Then up to 6x 32 = 192 CIB modules can be connected to one basic module.
- RS-232 serial port on the CU2-01M enables connect directly GSM module for direct communication with mobile phones via SMS.
- 4 potential free contacts can be connected to 4 inputs on CU2-01M.
- Power supply 24 V DC must be connected to CU2-01M. Using 27.2 V DC power supply block enables to charge directly the external pair of 12 V backup lead accumulators. The accumulator can back up the whole CIB installation including the basic module. The backup period depends only on the capacity of the accumulator.

## Use

- For building control where standard functions and no comprehensive integration through communication with other systems is required.
- For implementation where programming skill is not available.
- Can be used also where control room and visualization in SCADA system is required. OPC server is available.

## Power supply

Power supply voltage(SELV)	+24 V DC
Allowed range	-15 % ÷ +25 % (20.4 ÷ 30 V DC)
Max. current consumption	110 mA
Galvanic isolation	No
Memory backup	Built in Li-Ion accumulator (500 hours); Holder for CR2032 lithium battery (20 000 hours)

## Dimensions and weight

Dimensions	90 x 105 x 65 mm
Weight	250 g

## Operating conditions

Operating temperature	-25 ÷ +55 °C
Storage temperature	-25 ÷ +70 °C
IP Degree of protection IEC EN 60529	IP 10B
Overvoltage category	II
Degree of pollution IEC EN 61131-2	2
Working position	Vertical
Installation	On DIN rail
Connections	Screw terminals
Conductors cross-section	max. 2.5 mm <sup>2</sup>



CU2-01M



IDM – Software for parametrization

## Order number

<b>CU2-01M</b>	CU2-01M, CPU - ETH100/10, 1xRS-232, 2xCIB, 4x DI, 2x PSM (power supply monitor), 1x RO, configured by IDM software
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