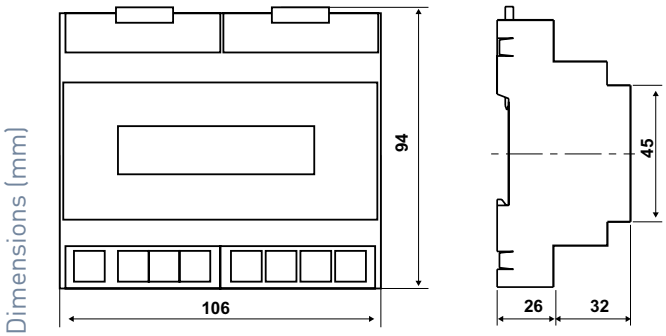
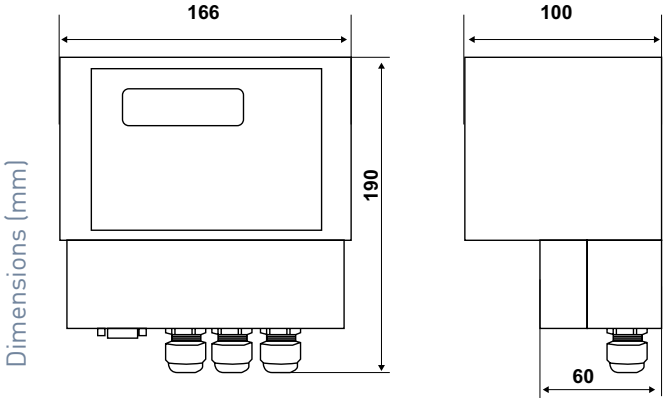
ECC20CON - ECC60CON

M-Bus Master Level Converter

Level converter for up to 20 and 60 devices (meters), ideal for small M-Bus installation.





	Power supply	Power input	Connected meters	BUS Max lenght	Protection degree	Weight Kg
ECC20CON	10...28Vdc, 5W - 13...28Vca, 9W	5W DC / 9W AC	20	2500 m	IP20	0,23 Kg
ECC60CON	230Vca 50Hz 25W	12W	60	2600 m	IP53	1,3 Kg

HOMOLOGATION AND STANDARDS

Between level converters follow these standards:
M-Bus: EN1434-3
Emmission: DIN EN50081-1, EN 55022 class B, EN 60555
Immission: DIN EN50082-2, ENV 50140, ENV 50204, EN 61000-4-4

INSTALLATION

Wall mounted for ECC60CON device.
DIN-rail mounting for ECC20CON device.

FEATURES

Operating temperature: 0..+45°C
Storage temperature: -10..+60°C
Humidity: 10..70% (non condensing)
Transmission speed: 300 .. 9600 baud
M-Bus voltage : 32V (Mark, without load) for ECC20CON
39V (Mark, without load) for ECC60CON
Interfaces: M-Bus, RS232, RS485
Screw terminals: M-Bus (3-times)
Data memory: minimum 2000 telegrams (ECC60CON)
minimum 4000 telegrams (ECC20CON)

OPERATION

The M-Bus level converters with display allows reading the meters using the keyboard and viewing the consumption values on the LCD. The reading personnel is then able to get the data of many meters from one central location without the need to enter all the flats and without further technical equipment (laptop..). Additionally the device offers a so-called command mode for remote readout of meters using a standard modem (10-bit). The M-Bus software ECCMBSW supports this command mode.

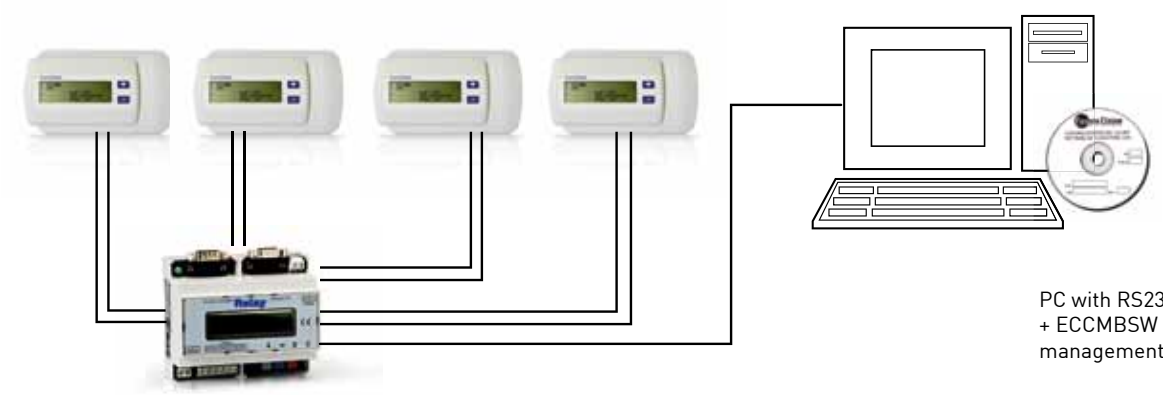
DISPLAY
Through a simple and intuitive menu you can view, for each slave, other parameters, such as:

- primary address and meter ID
- stored heat energy
- accumulated volume (m^3)
- accumulated volume (l)
- flow temperature probe
- return temperature probe
- temperature difference
- hours of operation
- instant energy
- instantaneous flow rate
- report on the status of operation
- error code
- current date

It is also possible to optimize the display to display, set the parameter to render preferential choice among all those available.

REMOTE CONTROL
ECC20CON e ECC60CON devices work like simple level converter. The signals of the RS232C and RS485 interfaces are converted to M-Bus signals and vice versa. The CPU watches the data transmission and reacts on certain control frames. Following a successful login command the device switches itself from level converter mode to command mode. Then the device can be controlled using the RS232C interface directly with a PC or via modem. This command mode includes reading single meters, downloading all stored data, configuration and even an update of the software.

SYSTEM EXAMPLES



PC with RS232 serial input
+ ECCMBSW Software for
management of devices

ECC20CON level converter for up to 20 devices (meters)
ECC60CON level converter for up to 60 devices (meters)

SOFTWARE

ECCMBSW
Software for management of devices via M-BUS.

ACCESSORIES

EM70S
GSM modem with power supply and antenna.