

CMM 05000

32 units M-bus extender

This QuickManual contains instructions for mounting and installation of the CMM 05000. Instructions in this document will help the installer to be confident of a successful installation. This document also contains informational space for documentation purpose of the installed device.

Product information

CMM 05000 is an M-Bus over IR to M-Bus 2-wire communication module. The CMM 05000 extends the possibilities to connect up to 32 M-Bus slaves. The device is stackable and can be used together with other communication modules and electricity meters.

1. Serial number
2. IR-port
3. M-Bus interface (push wire, only solid connector)

Placement and mounting

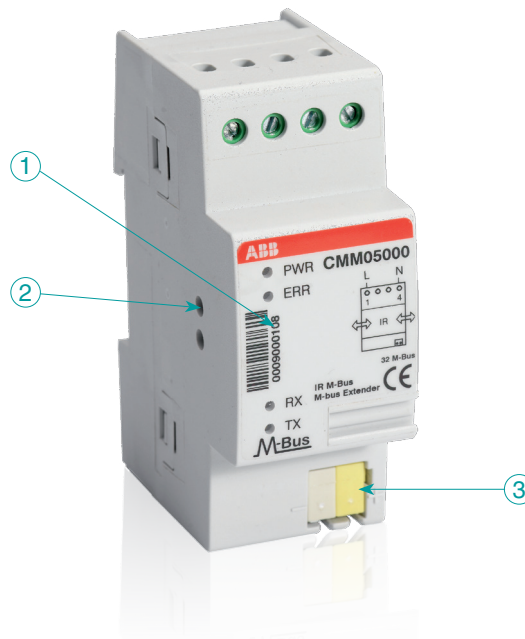
CMM 05000 should be mounted on a standard 35mm DIN rail. The CMM 05000 can be used in 2 modes. Standalone M-Bus Extender and Pass-through M-Bus Extender.

Stand alone M-Bus Extender

The CMM 05000 should be mounted on the right side of communication module. The IR port (2) should be covered with seal marked :“IR Pass-through cover”. (Included in packaging box)

Pass-through M-Bus Extender

The CMM 05000 should be mounted on the right side of communication module.



Installation

Connect 100-240 VAC to terminals marked L and N. M-Bus slaves should be connected to the M-Bus interface (3). Further products can be connected on the right side of the CMM 05000 using the M-Bus-IR port (2).

Function

Power on the PWR led (green) will be steady on. The RX led (yellow) will flash on communication from M-Bus master side and TX led (yellow) will flash on communication from M-Bus slave side (3+2). The ERR led (red) will be steady on if the M-Bus 2-wire bus (3) is short circuit or have more than 32 M-Bus slave units connected.

ERR led (red) is steady on. Make sure that:

1. Voltage on the M-Bus 2-wire interface is 30 VDC
 - A. If voltage is less than 27 VDC, the problem may be one of the following:
 - I. Short circuit of the M-Bus 2-wire bus. Check wiring.
 - II. Failing M-Bus slave. Disconnect M-Bus slave one by one and measure voltage to find the failing device.

PWR led (green) is not steady on. Make sure that:

1. Verify operating voltage between 100-240 VAC

Specifications

Order Code	2CMA 137 120 R1000
Mounting	DIN TS 35 rail
Physical measures	H=85mm W=36mm D=90mm (2 DIN modules)
Enclosure	IP 20
Temperature range (°C) Operating	-25 to +55
Temperature range (°C) Storage	-25 to +70
Operating voltage	100-240VAC
Power consumption	2,5W
M-Bus 2-wire interface max current	32T 48mA
M-Bus 2-wire interface voltage	30 VDC
Maximum stacked products	4
Baudrate (M-Bus IR interface and M-Bus 2-wire interface)	300,2400
Supported products	ABB electricity meters ABB communication modules - CTM04000 (M-Bus / M-Bus 2-wire) - CRM04000 (M-Bus / RS232) - CEM05000 (M-Bus over TCP/UDP) - CEM 05100 (M-Bus over TCP/UDP) - CGM 0500 (K-Bus over GSM, GPRS) - Elvaco CMe Series products

Subject to changes in technology, design and availability without prior notice.

Documentation of installed device

CMM 05000 serial number

Address

Position

Installer

Issue date

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