

M-Bus Central Unit

Independent M-Bus master

Versions for 120 or 250 slaves

Reads all meters according to EN1434-3

Automatic data logger

Export of measured data to PC database

Operation on-site by keyboard / LCD

Service and modem interface



The M-Bus Central Unit independently records and manages all measured data in a M-Bus installation. Times and intervals for automatic read-out are defined practically at will. The permanently stored data can be read at any time locally with a PC. Also it is possible to receive data from the M-Bus Central Unit at almost any location by an optional internal or external modem. The exported data format is suitable for processing with standard databases and table calculations.

The customer or caretaker can request the actual meter readings by the built-in keypad and view them on the display.

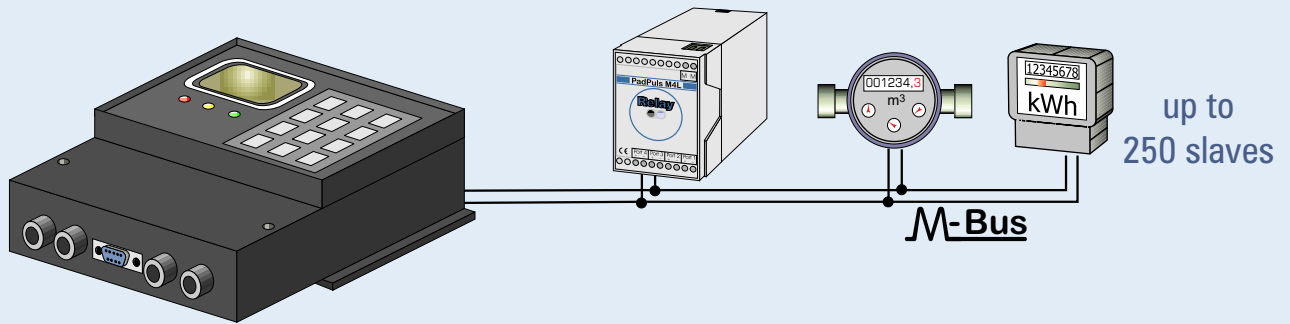
Relay

PadMess

The heart of your M-Bus installation:

M-Bus Central Unit

M-Bus
Central
Unit



Function of the M-Bus Central Unit

The M-Bus Central Unit scans the data from up to 250 meters in selectable intervals. All meters with M-Bus protocol according to EN1434-3 are automatically detected and read. This means that the user is saved the laborious task of configuring the measuring points in the software.

It is possible to operate the M-Bus Central Unit on-site by the keypad and the LCD, without any auxiliary devices. A PC can be used to read the stored meter data on-site or by a modem connection (for example with a standard terminal software).

The operating system is available in different languages and can easily be updated by software.

Advantages of the M-Bus systems

- ✓ Cost-saving field bus system
- ✓ Two-wire bus supplying power to the bus users
- ✓ Large range (several kilometres)
- ✓ European standard (EN 1434)
- ✓ Good availability of system components
- ✓ Suited for applications at home and in industry
- ✓ Remote reading of consumption (water, heat, gas, electricity, ...)
- ✓ Total energy monitoring
- ✓ Data logging by mouse click
- ✓ Transmission rates up to 38400 baud

Technical data

Power supply:	42V DC	Housing:	anthracite plastic
Power input:	max. 25W		protection type IP52
Temperature range:	0 .. 55 °C		H x W x D: 85 x 200 x 240 mm
M-Bus voltage:	40V (Mark, without load)	CPU:	NEC V25 (8MHz)
M-Bus quiescent current:	max. 375mA at the DR001 (250 unit loads)	Memory:	512 kB FLASH 512 kB static RAM
	max. 180 mA at the DR002 (120 unit loads)	Security:	battery buffered realtime clock watchdog / supervisor
Overcurrent threshold:	500mA (DR001), 250mA (DR002)	Control panel:	20 key plastic-foil keyboard LCD with 4 lines x 16 columns
Internal bus resistance:	approx. 10 Ω	Interfaces:	M-Bus, RS232, internal modem, external modem
Transmission speed:	300 .. 38400 baud		
Galvanic insulation:	1kV (to M-Bus)		

Order information

M-Bus Central Unit 250 meters	Art.-No. DR001
M-Bus Central Unit 120 meters	Art.-No. DR002

Delivery contains:

- Plug-in power supply 42VDC (standard)
- Wall mounted power supply 42VDC (optional)

Accessories

Internal, analog modem (factory installed)	Art.-No. MOD004
External, analog modem	Art.-No. MOD001



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