

M-Bus Master Family W60

Level converter for up to 60 slaves

Integrated 230V power supply

Operation according to EN1434-3

Central read-out of all meters

Independent M-Bus remote display

Operation on-site by keyboard / LCD

Automatic data logger



The three members of the W60 Master Family are ideally suited for M-Bus installations with up to 60 meters.

The base model is the M-Bus Level Converter, which is standardly equipped with a RS232 and a RS485 interface. For remote read-out a PC with software is needed.

The M-Bus Display additionally allows real stand-alone operation with the integrated LCD and keypad. Therefore meter data can be displayed on-site with few keystrokes.

The third member of the W60 family, the M-Bus Logger, also automatically stores data at selectable times. The data memory can be exported directly to a PC or a laptop. Alternatively the use of a modem connection is possible.

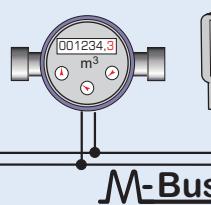
Relay

PadMess

Convenient and user-friendly:

M-Bus Display

**M-Bus
Display**



up to
60 slaves

Function of the M-Bus Display

The M-Bus Display can be operated on-site by the keypad and the LC display without other auxiliary devices. During installation all meters with M-Bus protocol according to EN1434-3 are automatically detected and stored to a list in the EEPROM. The user is saved from the laborious task of installing the measuring points in the software.

The consumption data of all meters are displayed sequentially by user's keystroke. As well, it is possible to call up an individual meter.

Additionally the M-Bus Display with its RS232 interface allows direct reading of all meters by a PC or a modem connection.

Differences between the versions

M-Bus Level Converter:

Serves as a supply and as an interface converter from RS232 or RS485 to M-Bus. An external controller with software is required.

M-Bus Display:

Offers the same functions as the level converter but additionally allows local read-out by the integrated keypad and LCD.

M-Bus Data Logger:

Offers the same functions as the display with additional periodic storage of meter data.

These data can be exported to a PC by RS232 or a modem connection.

Technical data

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|--------------------------|--|
| Operating voltage: | 230VAC (opt. 110VAC), 50/60Hz |
| Power input: | 12W |
| Temperature range: | 0 .. 55 °C |
| M-Bus voltage: | 39V (mark, without load) |
| M-Bus quiescent current: | max. 90mA (60 unit loads) |
| Overcurrent threshold: | 140mA |
| Internalbus resistance: | approx. 15 ohm |
| Transmission speed: | 300 .. 9600 baud |
| Galvanic isolation: | 2.5kV (to the M-Bus) |
| Housing: | light-grey plastic protection type IP52 H x W x D: 71 x 165 x 175 mm wall mounted, sealable |

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|-----------------------|---|
| LED-state indicators: | power, maximum load M-Bus, short circuit M-Bus |
| Control panel: | 4 key plastic-foil keyboard (exceptional MR004W) |
| Interfaces: | M-Bus, RS232, RS485 |
| Screw terminals: | M-Bus (3-times), RS485, RS232 (GND, TXD, RXD) |
| Plug-in terminals: | power supply (L1, N, E) RS232 as 9-pin. DSUB-socket |
| Data memory: | minimum 2000 telegrams (shared to the number of meters) |

Order information

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|-------------------------------------|------------------|
| M-Bus Level Converter for 60 meters | Art.-No. MR004W |
| M-Bus Display for 60 meters | Art.-No. MR004FA |
| M-Bus Data Logger for 60 meters | Art.-No. MR004DL |

For the 110VAC- supply voltage add -US to the order number.



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Accessories

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|---------------------------------------|-----------------|
| External modem for Data Logger | Art.-No. MOD001 |
| External, analog M-Bus modem | Art.-No. MOD002 |
| Look@M-Bus for Windows 95/98/NT | Art.-No. SW006 |
| LocalService@M-Bus (add. time module) | Art.-No. SW006Z |
| M-Bus OLE-Server for Windows 95/98/NT | Art.-No. SW005 |



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