

M-Bus Master-PW Series

Compact M-Bus master level converter

Versions for 3, 20 or 60 slaves

Optical, RS232 or RS485 interface

Transmission speed up to 9600 baud

Short circuit and overvoltage proof

Operating state indicated by LED

Rail mounted



The master level converter series offers versions for 3, 20 and 60 M-Bus slaves. These devices are ideal for custom and economical M-Bus installations.

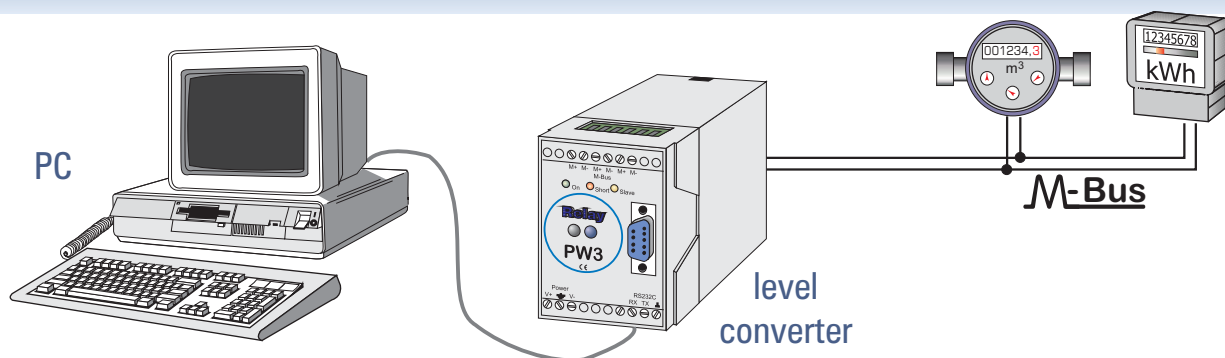
All measured data can be recorded and processed by a connected computer system with suitable software. The PW series allows to setup parameters and read data from slaves on-site by a mobile computer. An integrated optical interface prevents the user from installing cumbersome cable connections.

It is also possible to transmit data from the M-Bus installation by the telephone network, using our M-Bus modem for level converters.



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For the custom-made M-Bus installation: PW3, PW20, PW60



Function of the Master-PW devices

The devices in the PW series are M-Bus master interfaces for networks with 3, 20 and 60 slaves. They are compact in design (wall or rail mounting) and have a broad supply voltage range. The actual operating state is indicated by several LED at the front. All device versions in the PW series are equipped with a RS232 port. The control computer can communicate with the M-Bus meters by the integrated IR optical interface using a ZVEI optical head.

The PW60 has an additional noise-free RS485 port which enables greater distances between control computer and level converter.

Advantages of the M-Bus system

- ✓ 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

	PW3	PW20	PW60
Operating voltage:	10.8V .. 28V DC 10.8V .. 28V AC	10.8V .. 28V DC 10.8V .. 28V AC	20V .. 45V DC 20V .. 30V AC
Max. power input:	3.6W	7W	16W
M-Bus voltage (without load):	33V	32V	38V
Max. M-Bus quiescent current:	4.5mA (3 unit loads)	30mA (20 unit loads)	90mA (60 unit loads)
Internal bus resistance:	approx. 100Ω	approx. 100Ω	approx. 20Ω
Overcurrent threshold:	35mA	60mA	140mA
Transmission speed RS232:	300 .. 9600 baud	300 .. 9600 baud	300 .. 9600 baud
RS485:	--	--	300 .. 9600 baud
optical:	2400 baud	2400 baud	2400 baud
Galvanic isolation to M-Bus:	--	--	yes
Bit recovery:	--	--	yes
Temperature range:	0 .. 55 °C	0 .. 55 °C	0 .. 55 °C
Dimensions HxWxD / protection:	78 x 56 x 117mm / IP40	78 x 56 x 117mm / IP40	78 x 70 x 118mm / IP40

Order information

Level converter PW60	Art.-No. MR004C
Level converter PW20	Art.-No. MR006
Level converter PW3	Art.-No. MR005
Plug-in power supply 12V DC 12W for PW3, PW20	Art.-No. NT003
Plug-in power supply 24V AC 18W for PW60	Art.-No. NT004

Accessories

M-Bus modem for level converter	Art.-No. MOD003
Optical head for RS232-interface	Art.-No. OK001
<u>M-Bus readout-software:</u>	
Look@M-Bus for Windows95/98/NT	Art.-No. SW006
LocalService@M-Bus (time modul)	Art.-No. SW006Z
M-Bus OLE Server for Windows95/98/NT	Art.-No. SW005