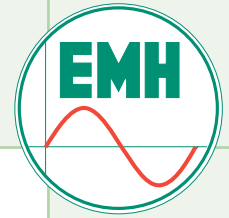


Technical

Data sheet



- ✓ for the connection of 25 M-Bus measuring devices
- ✓ Internal raconet radio module and long-range power supply
- ✓ Space-saving DIN-rail mounting
- ✓ Self-configuring



raconet Gateway

with raconet radio module for wireless remote readout of M-Bus measuring devices

EMH Elektrizitätszähler
GmbH & Co KG
Südring 5
19243 Wittenburg
GERMANY

Tel. +49 38852 645-0
Fax +49 38852 645-129
E-mail info@emh-meter.de
Web www.emh-meter.de

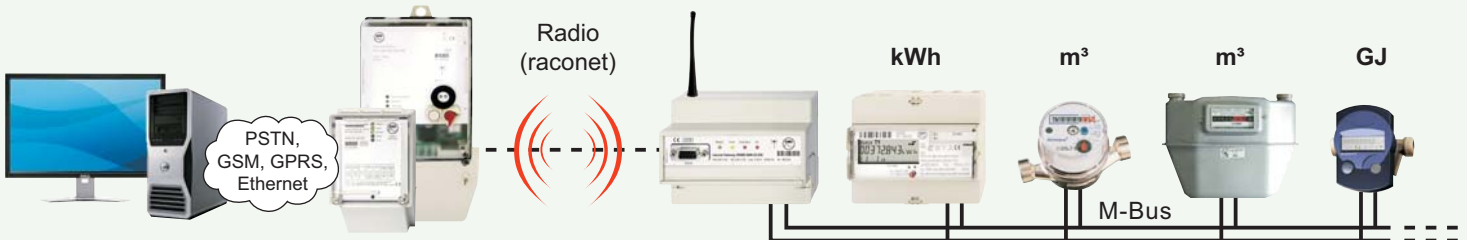
raconet Gateway RNMB

for the connection of M-Bus measuring devices

Voltage		100...240 V AC ($\pm 10\%$), 135 V...240 V DC ($\pm 10\%$)
Current		max. 0.25 A
Frequency		50 Hz, 60 Hz
LED-displays	Ready COM Overload Init	operate ready communication on the M-Bus LED flashes: bus is overloaded by too much meters LED on: short-circuit LED flashes: initialisation of radio module LED off: initialisation of radio module is finished LED on: error with initialisation of radio module
Data interfaces	M-Bus radio maximum transmission rate	acc. to DIN EN 13757-2, -3 raconet radio module 9600 baud
Power consumption	voltage path	< 6 W
Temperature range	operation/ limit and storage	-25°C...+55°C / -40°C...+70°C
Relative humidity		95%, non-condensing acc. to IEC 62052-11, EN 50470-1 and IEC 60068-2-30
Housing	dimensions class of protection degree of protection material fire characteristics weight	126 x 90 x 70 (W x H x D) mm, height with antenna = 160 mm 2 IP 20 (higher classes of protection also possible in combination with a meter cabinet) polycarbonate glass-fiber reinforced, without halogen, recyclable acc. to IEC 62052-11 approx. 500 g
Connection-cross section		2.5 mm ² single-wire or fine-wired; 1.5 mm ² fine-wired incl. connector sleeve
Bus voltage		36 V
Version	version of antenna max. 25 measuring devices ¹	internal antenna RNMB-R0W-25-E00 housing antenna RNMB-S0W-25-E00

Product specifications are subject to change without notice.

¹ with a standby current of 1.5 mA per device



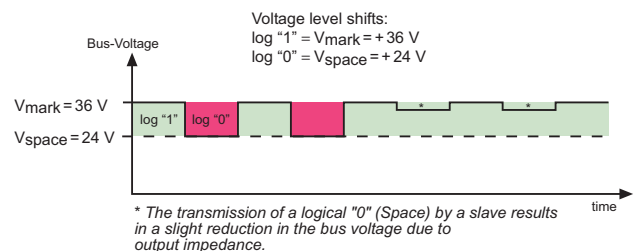
M-Bus (Metering Bus) is a field bus for the registration of consuming data. Transfer takes place serially on a polarised two-wire cable from the connected meters to the raconet Gateway. The data is usually transferred at a speed from 300 up to 9600 baud. For the cabling no specified topology (winding phase or star) is prescribed. A normal telephone cable, type JYSTY N*2*0.8 mm, can be used. Besides for electricity meters the raconet Gateway can be used also for water-, thermal- and gas meters.

Dependence on cable diameters, cable lengths and data transfer rates:

Type	Max. cable length	Cable diameter	Data transfer rate
House installation	350 m	0.5 mm ²	9600 baud
Small wide area installation	1 km	0.5 mm ²	2400 baud
Standard	2 km	0.8 mm ²	2400 baud
Large wide area installation	3 km	1.5 mm ²	2400 baud
Network installation	5 km	1.5 mm ²	300 baud

Technical Specification M-Bus

Bit-transfer from raconet Gateway to Slave (meter)



Bit-transfer from Slave (meter) to raconet Gateway

