HWg-PWR

Energy consumption measurement over IP using 3/12/25 M-Bus meters

The HWg-PWR is an Ethernet device for remote monitoring and reading of energy meters. You can connect up to 25 M-Bus meters of electricity, heat, gas or water.

The HWg-PWR will send an email with a weekly/monthly summary for invoicing. The report contains consumption and price for each meter (customer)
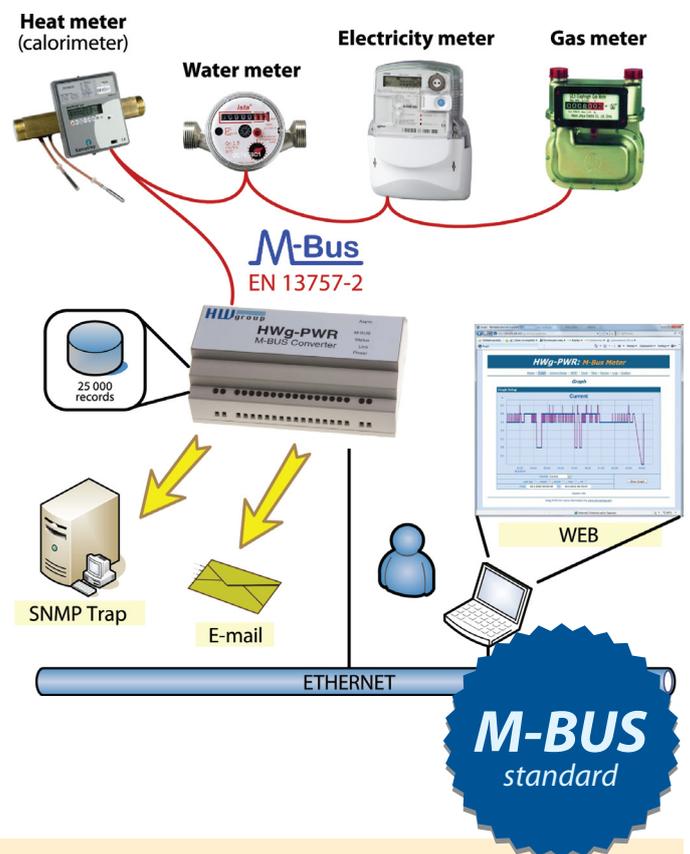
The HWg-PWR supports graphs of consumption and prices over its internal web server. If you exceed the preset consupmtion, the device will notify you (e-mail, SNMP Trap, SMS). This is useful for detecting outages or pipeline damage.

M-Bus is an European standard in energy metering (EN 13757). The M-Bus interface is supported by most of the meter manufactures.

Certified M-Bus meters can be used for charge metering. The M-Bus meters even provide additional values like Voltage, Current, cos Fi Flow, Drift, etc.

Usage examples

- Remote monitoring of electricity meters in small server rooms and BTS

- Monitoring of energy consumption in rented premises

- Acquiring energy consumption readings in remote or inaccessible areas

- Control over energy costs

- Checking for individual line overloads in three phase wirings

- Checking for undervoltage in electric wirings

- Monitoring the flow of liquids

M-Bus input
- ✔ Electricity meter
- ✔ Water meter
- ✔ Gas meter
- ✔ Heat meter

Ethernet output
- ✔ WEB, graphs
- ✔ SNMP
- ✔ Alarm messages
- ✔ Periodical email

M-BUS *standard*

Features

- Measures using 3 / 12 / 25 external meters (electricity, heat, gas, water) with an M-Bus interface.
- Automatic detection of the connected meters and their measured parameters.
- Reads up to 100 values of all the connected M-Bus meters.
- Logs the measured values. The internal memory holds up to 170 000 values.
- 8 voltage inputs for 230V (common protective conductor). Usable for phase or power outage detection.
- The HWg-PWR includes a power source for the M-Bus. It can be mounted on a DIN rail.
- Periodical reporting of the measured values – ideal for billing consumption on remote locations.
- Alarm (e-mail / SMS) when a value is out of range. Usable for detecting pipeline damage or aircon outages.
- M-Bus offers a wide range of certified meters from many manufacturers.
- Data can be read over IP (HTTP and e-mail) using a windows application – the HWg-PDMS. It includes a native MS Excel data export.

HWg-PWR 3 / 12 / 25

External M-Bus meters	
HWg-PWR 3	3
HWg-PWR 12	12
HWg-PWR 25	25
Digital Inputs	8x (110/230V)
Email alert	✔
Email reports (consumption)	✔
HWg-PUSH protocol	✔
M-Bus	3/12/25 meters powered from HWg-PWR 100 variables for all M-Bus devices
Ethernet	100 Base Tx
IP protocols	ARP, TCP/IP (HTTP, NTP, SMTP, Modbus/TCP), UDP/IP (SNMP)
M2M protocols	HTTP (XML), SNMP, SNMP Trap, Modbus/TCP, HWg-PUSH
Accuracy	depends on the connected meter
Power supply	110V/230V (10W)

Optional accessories

Meter 3f ED 310.DB HWG	M-Count 2C	Meter 3f ED 310.I.DB HWG	CLA 3.1	HWg-PDMS
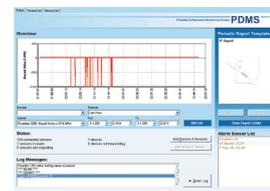
HWg-PDMS 20	A windows application that collects data to a database and can export to MS Excel (20 values)
Meter 3f ED 310.DB HWG	Three-phase two-tariff electricity meter 63A with M-Bus and SO **for direct measurement**
Meter 1f DHZ 5/63-M-BUS	Single-phase electricity meter 63A with M-Bus
M-Count 2C	Conventer and datalogger 2x switching output (SO) / M-Bus
Meter 3f ED 310.I.DB HWG	Three-phase two-tariff electricity meter 63A with M-Bus and SO **for indirect measurement**
CLA 3.1	Current transformer 1000A/5A, accuracy class 0.5S, power 10VA
CLB 2.65	Current transformer 200A/5A, accuracy class 0.5S, power 10VA