

WMB-868 WIRELESS M-BUS BRIDGE

PRODUCT DATASHEET

The Wireless M-Bus Bridge WMB-868 enables remote reading of water, gas or heat meters on the basis of wireless communication. Moreover, an integrated M-Bus interface permits direct connection to EM-1021 and EM-1023 Electricity Meters¹ and full integration into the Networked Energy Services (NES)² infrastructure.



FEATURES

- Equipped with a sophisticated 868.95 MHz ISM radio band receiver
- Range of radio reception depends on environment up to 400 m outdoors, up to 30 m indoors
- Integrated M-Bus interface permits direct connection to EM-1021 and EM-1023 electricity meters and full integration into the NES infrastructure
- Automatically discovers up to 128 wireless meters that are within RF reception range
- Sophisticated alarm management generates M-Bus alarm messages if newly discovered meters have been detected or if the radio connection to already discovered meters has been lost
- Supports on demand billing reads of discovered meters
- Supports automatic billing reads of registered meters
- Simple Plug and Play installation
- Supports firmware updates via the NES infrastructure
- LED indicators provide information about M-Bus activity, RF activity and proper start up
- M-Bus interface complies with EN 13757-2, EN 13757-3
- Wireless communication complies with EN 13757-4, reception mode T1
- Powered by M-Bus, no additional power supplies required
- CE (!) R&TTE Approval

ORDERING INFORMATION

Product	WMB-868 WIRELESS M-BUS BRIDGE	
Model number	70010-010204EM	Emulates 4 M-Bus devices

SPECIFICATIONS

M-Bus Interface

Wired M-Bus	Mains protected Complies with EN 13757-2 [2005] and EN 13757-3 [2005]
Power supply	Powered by M-Bus Current consumption limited to 30 mA (20 UL)

RF Interface

Radio communication	Complies with EN 13757-4 [2005]
Antenna	Internal ceramic multi layer substrate chip antenna with 1.5dBi gain Optional external antenna available
Reception	868.95 MHz, Class 3 receiver
Chip rate	100 kcps
Operation mode	T1 as specified in EN 13757-4
RF coverage	Range of radio reception depends on environment up to 400 m outdoors, up to 30 m indoors

Mechanical Specifications

Enclosure	Insulating sealable enclosure of protection class II, IP 44
Dimensions	120 x 120 x 35 mm
Mounting	Prepared for wall mounting
M-Bus wiring terminals	Up to 1 x 1,5 mm ²

Environmental Specifications

Temperature range	-25 °C to +70 °C operating temperature range -40 °C to +70 °C limit for storage and transport
Humidity	≤ 90% relative humidity, non condensing
Approvals	CE (!) R&TTE
Certifications	Complies with ETSI EN 301 489-1 V1.6.1, ETSI EN 301 489-3 V1.4.1 ETSI EN 300 220-1 V2.1.1, ETSI EN 300 220-3 V1.1.1

¹ Electricity Meters EM-1021 and EM-1023 are products of Echelon Corporation

² NES is a trademark of Echelon Corporation