



The AMB568-M enables wireless connection of meters with pulse output to a Wireless M-Bus / OMS radio network. This allows for easy wireless reading of gas, water or electricity meters. The format of the data transmitted can be freely configured. The gateway and the pulse interface are powered by the integrated battery. Depending on operating conditions and the device's configuration a battery life time of more than 12 years can be achieved. The device supports both potential-free pulse outputs (reed, opto coupler...) and open collector outputs.

Main features :

- Wireless M-Bus adapter for meters with pulse interface
- Long battery life (> 12 years achievable)
- Low energy: Power saving modes, fast wake-up times
- Configurable data records, prepared for utility meters
- Encryption using AES128 (Mode 5) + CMAC (Mode 7)
- Pulse input supports both open collector and potential-free pulse outputs
- 4 pulse inputs

RADIO PARAMETERS

Operating modes	S, T and C mode according to EN 13757-4
Radiated power	Typ. 8 dBm (transmitter class H _T)
Frequency range	868.3 or 868.95 MHz
Modulation	2-FSK

GENERAL

Pulse rate	Minimum pulse pause ("Open"): 55 ms Minimum pulse duration ("Closed"): 5 ms*
Transmission interval	Adjustable between 5 s and approx. 18 h
Clamping area	28 – 16 AWG (0.36 to 1.5 mm ²)
Wire diameter	3 - 6 mm
Power supply	Internal 3.6 V battery
Battery life time	> 12 years**
Dimensions	80 x 120 x 57 mm without cable gland 101 x 120 x 57 mm with cable gland
Operating temperature	-10 to +55 °C
Storage temperature	-20 to + 70 °C
Humidity	Maximum 80 % at 40 °C, non condensing
Weight	80 g
Antenna	Internal antenna
Ingress Protection	IP65, IP68***
Conformity	Europe**** ; EN 300 220, EN 301 489, EN 60950, EN 62479

* Depending on implementation of pulse generator.

** Calculation based on a transmission interval of 15 minutes (900 seconds).

*** Provided that a correct mounting according to the mounting instructions is adhered to.

**** Provided that the cable length is less than 3 meters.