B-MAG I M5000

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Battery-powered electromagnetic watermeter
- The new generation -

Typical applications are leak detection in water networks, water consumption measurements and irrigation plants. The meter is best suited for applications without a power supply where exact consumption or flow rates are required. Of course, the B-MAG I M5000 can also be used with an available power supply. The meter can be powered with main voltage and in case of a main failure, it is powered by an internal battery. Important data are consequently saved.

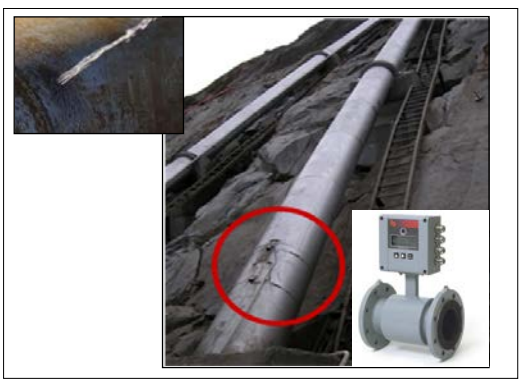
The B-MAG I M5000 is a battery-powered electromagnetic flow meter with a very high accuracy even at very low flows. The excellent repeatability as well as the far above-average battery life makes this innovative water meter indispensable for the water market, even on the remotest measuring sites.

Without cross-section constriction

The intelligent configuration of the coil construction effected into a clear reduction of the electromagnetic field excitation while still generating an homogeneous magnetic field – without cross-section construction.

Four digital outputs, three interfaces

The amplifier has four digital outputs, a RS232 port, an infrared interface (IrDA) and the ModBus® RTU interface as standard.



With backup version

Thanks to dual power supply, the watermeter can be operated with both internal batteries (2 or 4D cells) and mains voltage. With the backup version, data do not get lost in case of power failure. B-MAG I M5000 provides - with two internal battery packs – more than 20 years operation autonomy.

The B-MAG I M5000 has been designed for very harsh environmental measurement conditions. The meter has no moving parts and can be used to measure water containing particles like sand or gravel. The B-MAG I M5000 is encased in an IP67 housing (optional IP68), which makes it a reliable meter even when submerged.

The standard meter is equipped with an internal datalogger which can read-out via an IrDA or RS232 interface with ModBus® RTU protocol. The collected data can also be retrieved via radio frequency or GSM/GPRS. The data can thus be centrally compiled and evaluated. B-MAG I M5000 can be checked without process interruption with the Verification Device.

Applications

- On sites without power supply
- In areas with very difficult access
- Water consumption measurement
- Flow measurement of water, raw water, drinking water...
- Leckage monitoring in water networks
- Monitoring of distribution networks
- Well measurement
- Irrigation plants

Verification Device with carrying case

Features of B-MAG I M5000

- Battery live time > 20 years
- Accuracy better than ±0,5%
- Measuring range of 0,03 to 12 m/s
- Sizes from DN15 to DN600
- Temperature 0 °C up to 80 °C
- 4 digital outputs
- IP 67 / IP 68 protection class
- No wearing parts
- Empty pipe detection
- With integrated datalogger
- 30 m cable length
- Bidirectional measurement
- Hastelloy C electrodes
- Verification device for easy and cost-efficient check on site without process interruption
- With software package for parametering of the meter via PC or laptop
- Interfaces: RS232, IrDa, ModBus®
- With battery backup version
- Connection to GSM/GPRS system possible