

Proline Promag W 800

Electromagnetic flowmeter

Battery-powered flowmeter with EN ISO 12944 corrosion protection & intelligent energy efficient mode



More information and current pricing:

www.at.endress.com/5W8B

Benefits:

- For direct underground installation or permanent underwater use – certified sensor
- Secure, reliable long-term operation – robust and completely welded sensor
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Maintenance-free – no moving parts
- No power grid required – battery lifetime of up to 15 years
- Worldwide transmission of measured data and events via e-mail and SMS – integrated GSM/GPRS modem
- Reliable data storage – integrated SD card

Specs at a glance

- **Max. measurement error** Volume flow: $\pm 0.5\%$ o.r. ± 2 mm/s ($\pm 0.5\%$ o.r. ± 0.08 in/s)
- **Measuring range** 15 dm³/min to 2500 m³/h (4 to 11 000 gal/min)
- **Medium temperature range** Liner material hard rubber: 0 to +80 °C (+32 to +176 °F) Liner material polyurethane: -20 to +50 °C (-4 to +122 °F)
- **Max. process pressure** PN 40, Class 300, 20K
- **Wetted materials** Liner: polyurethane; hard rubber Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022)

Field of application: Promag W is the specialized sensor for all applications in the water industry. Combined with the battery-powered transmitter Proline 800 for the measurement of water and wastewater,

PromagW 800 will be the preferred solution for all applications in this industry, which are in locations without power grid. It offers worldwide transmission of measured data and events via e - mail and SMS.

Features and specifications

Liquids

Measuring principle

Electromagnetic

Product headline

The battery-powered flowmeter with certified corrosion protection (EN ISO 12944) and intelligent energy efficient mode. For direct underground installation or permanent underwater use. Certified sensor in the water and wastewater industry for the most demanding applications.

Sensor features

Secure, reliable long - term operation – robust and completely welded sensor. Energy - saving flow measurement – no pressure loss due to cross - section constriction. Maintenance - free – no moving parts. International drinking water approvals. Degree of protection IP68 (Type 6P enclosure).

Transmitter features

No power grid required – battery lifetime of up to 15 years. Worldwide transmission of measured data and events via e - mail and SMS – integrated GSM/GPRS modem. Reliable data storage – integrated SD card. Transmitter housing made of durable polycarbonate. All in 1 housing incl. batteries & wireless modem.

Nominal diameter range

DN 25 to 300 (1 to 12")

Wetted materials

Liner: polyurethane; hard rubber

Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022)

Liquids

Measured variables

Volume flow, mass flow

Max. measurement error

Volume flow: $\pm 0.5\%$ o.r. ± 2 mm/s ($\pm 0.5\%$ o.r. ± 0.08 in/s)

Measuring range

15 dm³/min to 2500 m³/h (4 to 11 000 gal/min)

Max. process pressure

PN 40, Class 300, 20K

Medium temperature range

Liner material hard rubber: 0 to +80 °C (+32 to +176 °F)

Liner material polyurethane: -20 to +50 °C (-4 to +122 °F)

Ambient temperature range

Flange material carbon steel: -10 to +60 °C (14 to +140 °F)

Flange material stainless steel: -40 to +60 °C (-40 to +140 °F)

Sensor housing material

Standard: Carbon steel with protective varnish, fully welded

Sensor connection housing: Polycarbonate

Transmitter housing material

Polycarbonat

Degree of protection

Compact version: IP66/67, type 4X enclosure

Sensor remote version (standard): IP66/67, type 4X enclosure

Sensor remote version (option): IP68, type 6P enclosure, with protective varnish according to EN ISO 12944 C5 - M/Im1/Im2/Im3.

Transmitter remote version: IP66/67, Type 4X enclosure

Display/Operation

4 - line backlit display with touch control

(operation from outside)

Configuration via local display and operating tools possible; Remote data access via mail and SMS

Liquids

Outputs

Pulse/switch output (passive)

Inputs

Status input

Digital communication

GSM/GPRS

Power supply

Internal:

Batteries per DC 3.6 V

External:

AC 100 to 240 V (44 to 66 Hz) / DC 12 to 60 V

Hazardous area approvals

None

Metrological approvals and certificates

3.1 material, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025)

Pressure approvals and certificates

CRN

Hygienic approvals and certificates

Drinking water approval: ACS, KTW/W270, NSF 61, WRAS BS 6920

More information www.at.endress.com/5W8B