Proline Promag W 800 Electromagnetic flowmeter

Long-lasting battery-powered magmeter with secure system integration and communication

Benefits:

- With corrosion protection for underground installation or permanent underwater use
- Improved process safety – leakage detection with low flow and pressure measurement
- Reliable measurement – accurate measured values even with 0 x DN inlet run
- Long-term operation – robust and completely welded sensor
- Secure data storage and transmission – worldwide encrypted communication over the mobile network
- Convenient commissioning and operation – device access via Bluetooth using intuitive SmartBlue app
- Integrated verification – Heartbeat Technology

More information and current pricing:

www.au.endress.com/5W8C

Specs at a glance

- **Max. measurement error** Volume flow: ±0.5 % o.r. ± 2 mm/s (±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 800 is ideal for off-grid applications in the water industry, even flow measurement in direct underground installation or underwater. Promag 800 covers basic functionality,

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Promag 800 Advanced offers the full performance spectrum. The battery-powered transmitter provides worldwide transmission of measured data without additional energy supply. Heartbeat Technology ensures measurement reliability and compliant verification.

Features and specifications

Liquids

Measuring principle

Electromagnetic

Product headline

Long-lasting battery-powered magmeter with secure system integration and communication. With corrosion protection for underground installation or permanent underwater use. Designed for drinking water distribution networks in regions without power supply.

Sensor features

Improved process safety – leakage detection with low flow and pressure measurement. Reliable measurement – accurate measured values even with 0 x DN inlet run. Long-term operation – robust and completely welded sensor. International drinking water approvals. Degree of protection IP68 (Type 6P enclosure).

Transmitter features

Secure data storage and transmission – worldwide encrypted communication over the mobile network. Convenient commissioning and operation – device access via Bluetooth using intuitive SmartBlue app. Integrated, automated verification – Heartbeat Technology. Transmitter housing made of durable polycarbonate. Battery life time up to 15 years.

Nominal diameter range

DN 25 to 600 (1 to 24")

Wetted materials

Liner: polyurethane; hard rubber
Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022)

Liquids

Measured variables

Volume flow

Max. measurement error

Volume flow: ±0.5 % o.r. ± 2 mm/s (±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 ℃ (+32 to +176 ℉)
Liner material polyurethane: −20 to +50 ℃ (−4 to +122 ℉)

Ambient temperature range

Flange material carbon steel: −10 to +60 ℃ (14 to +140 ℉)
Flange material stainless steel: −40 to +60 ℃ (−40 to +140 ℉)

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.au.endress.com/5W8C**

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