Proline Promag D 400 electromagnetic flowmeter

Wafer flowmeter for the water and wastewater industry

More information and current pricing:
www.cz.endress.com/5D4C

Benefits:

- Easy, fast centering of the sensor – innovative housing construction
- Energy-saving flow measurement – no pressure loss due to cross section constriction
- Maintenance-free – no moving parts
- Safe operation – no need to open the device due to display with touch control, background lighting
- Time-saving local operation without additional software and hardware – integrated web server
- Integrated verification – Heartbeat Technology

Specs at a glance

- **Max. measurement error** Volume flow: ±0.5 % o.r. ± 1 mm/s (0.04 in/s)
- **Measuring range** 9 to 4700 dm³/min (2.5 to 1250 gal/min)
- **Medium temperature range** 0 to +60 °C (+32 to +140 °F)
- **Max. process pressure** PN 16, Class 150, 10K
- **Wetted materials** Liner: Polyamide Electrodes: 1.4435 (316L)

Field of application: The wafer flowmeter Promag D is designed for all basic water applications where space is at a minimum. Its innovative housing construction enables a customized and fast centering as well as a cost-optimized installation. Promag D 400 saves time and costs thanks to the broad functionality of its water- and wastewater-optimized transmitter. In addition, Heartbeat Technology ensures measurement reliability and compliant verification.

Features and specifications

Liquids

Measuring principle
Electromagnetic

Product headline
Wafer flowmeter for the water and wastewater industry.
For basic water applications, optimized for limited space and plastic pipe installations.

Sensor features
Easy, fast centering of the sensor – innovative housing construction. Energy - saving flow measurement – no pressure loss due to cross section constriction. Maintenance - free – no moving parts.
Short face-to-face length and low weight. Integrated ground disks made of stainless steel. International drinking water approvals.

Transmitter features
Safe operation – no need to open the device due to display with touch control, background lighting. Time - saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology.
Transmitter housing made of durable polycarbonate or aluminium.
WLAN access. Integrated data logger: measured values monitoring.

Nominal diameter range
DN 25...100
1"...4"

Wetted materials
Liner: Polyamide
Electrodes: 1.4435 (316L)

Measured variables
Volume flow, mass flow

Max. measurement error
Volume flow: ±0.5 % o.r. ± 1 mm/s (0.04 in/s)

Measuring range
9 to 4700 dm^3/min (2.5 to 1250 gal/min)

Liquids

Max. process pressure
PN 16, Class 150, 10K

Medium temperature range
0 to +60 °C (+32 to +140 °F)

Ambient temperature range
–20 to +60 °C (–4 to +140 °F)

Sensor housing material
AlSi10Mg, coated
Sensor connection housing: AlSi10Mg, coated

Transmitter housing material
Polycarbonat; AlSi10Mg, coated

Degree of protection
Compact version: IP66/67, type 4X enclosure
Sensor remote version: IP66/67, type 4X enclosure
Transmitter remote version: IP66/67, Type 4X enclosure

Display/Operation
4 - line backlit display with touch control (operation from outside)
Configuration via local display, web browser and operating tools possible

Outputs
3 ouputs:
0 - 20 mA/4 - 20 mA HART (active)
Pulse/frequency/switch output (passive)
Pulse/frequency output (passive)
Switch output (passive)

Inputs
Status input

Digital communication
HART, PROFIBUS DP, EtherNet/IP, Modbus RS485

Liquids

Power supply
AC 100 to 240 V / AC/DC 24 V

Hazardous area approvals
cCSAus

Product safety
CE, C-tick, EAC marking

Metrological approvals and certificates
Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Pressure approvals and certificates
CRN

Hygienic approvals and certificates
ACS, KTW/W270, NSF 61, WRAS BS 6920

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