Level | Pressure | Flow | Temperature | Liquid Analysis | Registration | Systems Components | Services | Solutions

Proline Promag 10L/50L
The no-frills flowmeter for water
Robust – economical – precise

The compact allrounder with outstanding performance

- Do you want to reliably measure the flow rate of drinking water, utility water or waste water?
  Promag has been successfully used for this purpose for more than 20 years.
- Is high plant availability essential to you?
  Promag L has all the qualities of the tried-and-tested Proline product family.
- Are you looking for a cost-effective, easy-to-install flowmeter with high measuring accuracy?
  Promag L offers it all in one device.
- Is drinking water your business?
  Promag L has internationally valid drinking water approvals.

Endress+Hauser

People for Process Automation

Promag L for all cases

The primary objectives of the water industry are to convey, purify and distribute water in adequate amounts. In this process, accurate measurement of water flow plays a particularly important role – whether for balancing or process control in water mains systems and treatment plants. It is precisely in these applications that you can depend on the uncompromising quality of Promag L.

Promag L is a flowmeter engineered especially for the water industry. Thanks to its robust and streamlined design that also provides high measuring accuracy, Promag L can be used in a wide variety of areas:

- For drinking, utility and waste water
- For applications in small plant engineering to large-scale projects in the water industry (e.g. flow measurement in water mains systems, pump systems or shafts)
- For monitoring utilities (e.g. with hot water or cooling water)

The Promag L sensors can be combined with two different transmitters: Promag 10 for basic applications and Promag 50 for standard applications with extended functionality.

Wherever – you can always rely on the performance capabilities of all of our Proline flowmeters: a long service life and high operational reliability.

Lap joint flanged device

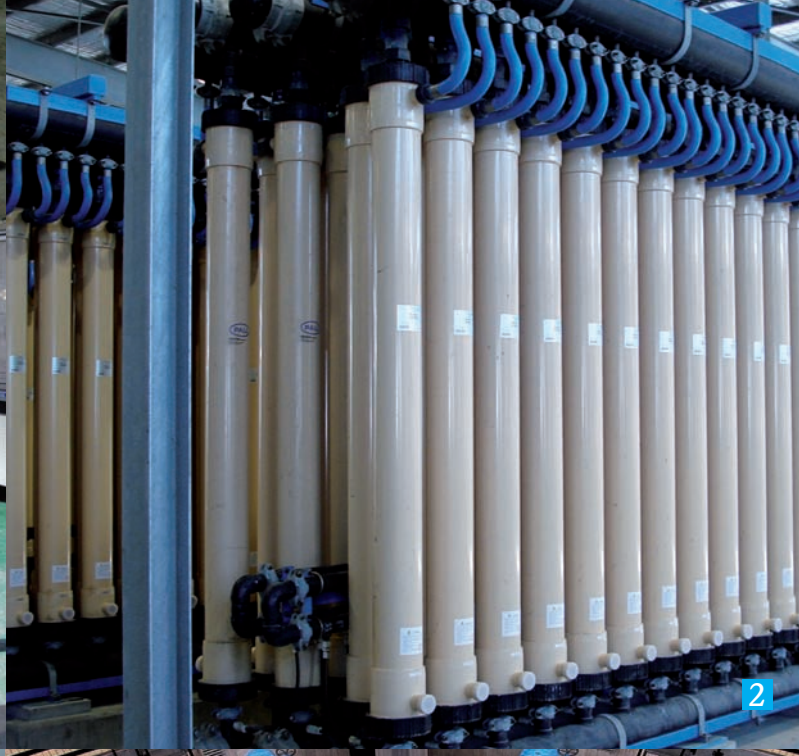
- Diameters: DN 50/2" to 300/12"
- Freely rotatable flanges for easy and flexible installation in pipes – regardless of the direction of the flange pitch diameter
- Up to 30% weight reduction compared to conventional flanged devices
- Compact design without limitations in accuracy, repeatability, etc.

Flanged device

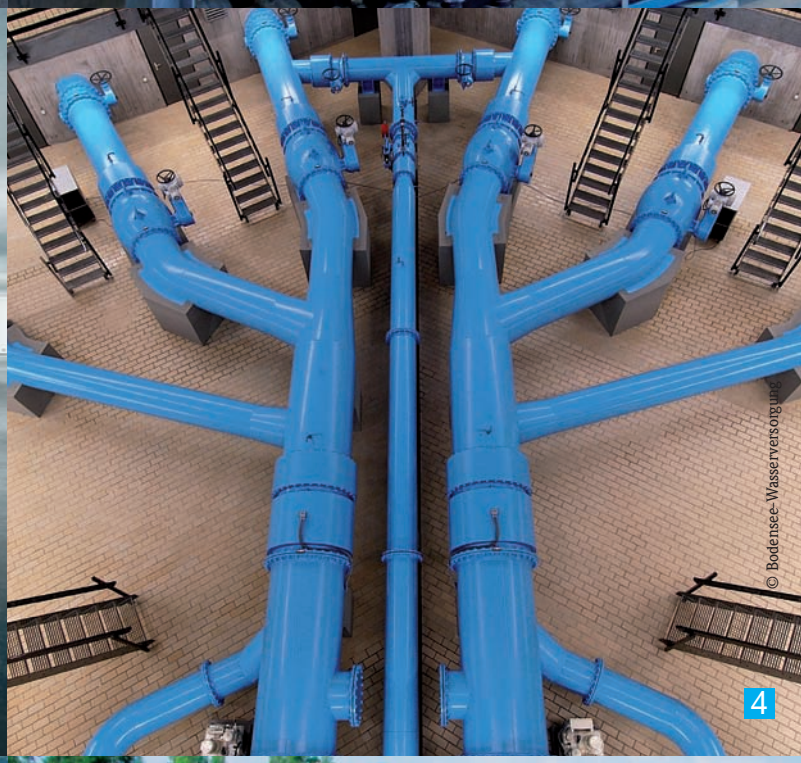
- Diameters: DN 350/14" to 2400/90"
- For all standard applications for water and waste water
- Compact design without limitations in accuracy, repeatability, etc.
- Short, optimized face-to-face lengths taking into account ISO and DVGW
- High corrosion resistance in accordance with EN ISO 12944-2 C5-I

Flow measurement of raw water (DE) 1, in desalination plants (AU) 2, in drinking water reservoirs (CH) 3, in water mains systems (DE) 4, or in sewage treatment plants (AT, BR) 5 6.


© Bodensee-Wasserversorgung
1

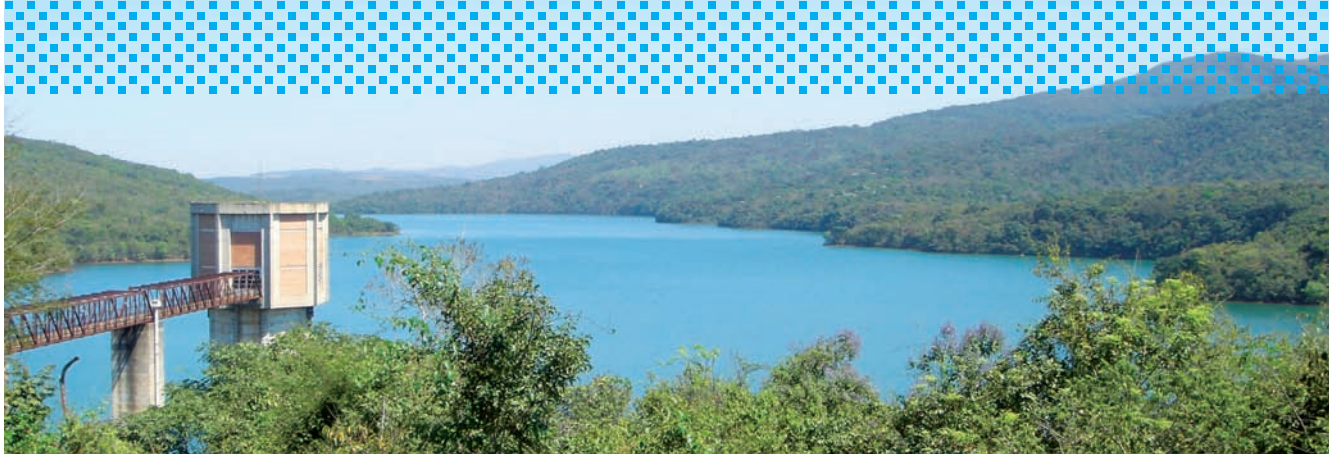

2


© Wasserversorgung Stadt Zürich
3


© Bodensee-Wasserversorgung
4


5


6



Technical data

Promag 10/50 (transmitter)

■ Power supply	Promag 10: 85 to 250 V AC (45 to 65 Hz) 20 to 28 V AC (45 to 65 Hz) 11 to 40 V DC Promag 50: 85 to 260 V AC (45 to 65 Hz) 20 to 55 V AC (45 to 65 Hz) 16 to 62 V DC
■ Ambient temperature	Standard: –20 to +60 °C (–4 to +140 °F) Option (up to DN 300/12"): –40 to +60 °C (–40 to +140 °F)
■ Design/Degree of protection	Compact: IP 67 (NEMA 4X) Remote: IP 67 (NEMA 4X) Option: "Harsh environment" version (DN 50/2" to 300/12")
■ Galvanic isolation	All circuits for inputs, outputs and power supply are galvanically isolated from each other
■ Outputs	Promag 10: current (HART), pulse or status output Promag 50: current (HART), pulse, frequency or status output
■ Inputs	Promag 50: status input
■ Communication	Promag 10: HART Promag 50: HART, PROFIBUS DP/PA
■ Measured error	Promag 10: ±0.5% o.r. ± 2 mm/s Promag 50: ±0.5% o.r. ± 1 mm/s ±0.2% o.r. ± 2 mm/s (optional)
■ Ex approvals	FM/CSA (Cl 1, Div. 2)

Promag L (sensor)

■ Nominal diameters	DN 50/2" to 2400/90"
■ Process connections	– DN 50/2" to 300/12": Lap joint flanges EN (DIN), ANSI – DN 350/14" to 2400/90": Flanges EN (DIN), ANSI, AWWA, AS
■ Process pressure	PN 6/10/16 (EN), Cl. 150 (ANSI), Cl. D (AWWA), Table E (AS), PN 16 (AS)
■ Process temperature	– Polyurethane: –20 to +50 °C (–4 to +122 °F) – Hard rubber: 0 to +80 °C (32 to 176 °F) – PTFE (up to DN 300/12"): –20 to +90 °C (–4 to +194 °F)
■ Drinking water approvals	KTW/W270, ACS, NSF 61, WRAS BS 6920 – for polyurethane liners – for hard rubber liners (from DN ≥ 350/14")
■ Materials	Liners: Polyurethane, hard rubber, PTFE Electrodes: 1.4435/316L, Alloy C-22
■ Degree of protection	IP 67 (NEMA 4X), IP 68 (NEMA 6P) Option: "Harsh environment" version (DN 50/2" to 300/12")
■ Electrical conductivity	Promag 10: ≥50 µS/cm Promag 50: ≥5 µS/cm (demineralized water: ≥20 µS/cm)

Subject to modification

The Promag 10L/50L measuring system fulfills the EMC requirements according to IEC 61326 and NAMUR NE21. It also conforms to the requirements of the EU and ACMA directives and thus carries the CE and ✓ mark.

Instruments International

Endress+Hauser
Instruments International AG
Kaegenstrasse 2
4153 Reinach
Switzerland
Tel. +41 61 715 81 00
Fax +41 61 715 25 00
http://www.endress.com
info@ii.endress.com

IN00017D/06/EN/14.12
71096115
INDD CS5

Endress+Hauser

People for Process Automation