Dosimag
electromagnetic flowmeter

Flowmeter with hygienic design, highest repeatability and an ultra-compact sensor

More information and current pricing:
www.lasc.endress.com/5BH

Benefits:

- High process safety – high measuring accuracy and repeatability in shortest filling time
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Maintenance-free – no moving parts
- Versatile and time-saving wiring – plug connector
- Industry-optimized – ultra-compact design
- For hygiene requirements – stainless steel housing

Specs at a glance

- **Max. measurement error** ±0.25 % o.r. ± 1 to 4 m/s (3.3 to 13 ft/s) ±0.5 % o.r. ± 1 mm/s (0.04 in/s) ±5 % o.r.
- **Measuring range** 0.14 to 1.66 l/s (0.035 to 0.44 gal/s)
- **Medium temperature range** Seal material EPDM: −20 to +130 °C (−4 to +266 °F) Seal material Silicone: −20 to +130 °C (−4 to +266 °F) Seal material Viton: 0 to +150 °C (+32 to +302 °F)
- **Max. process pressure** PN 16
- **Wetted materials** Liner: PFA Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022), Tantalum, Platinum

Field of application: Dosimag is specially designed for filling and bottling applications of conductive liquids. It measures volume directly. Designed for applications where space is a premium, Dosimag will be the preferred choice for system integrators, skid builders and equipment manufacturers.

Features and specifications

Liquids

Measuring principle
Electromagnetic

Product headline
Flowmeter with hygienic design, highest repeatability and an ultra-compact sensor.
For demanding dosing and filling applications.

Sensor features
High process safety – high measuring accuracy and repeatability in shortest filling time. Energy - saving flow measurement – no pressure loss due to cross section constriction. Maintenance - free – no moving parts.
Wetted materials CIP, SIP cleanable. Nominal diameter: DN 4 to 25 (⅛ to 1"). Measuring device conform to FDA.

Transmitter features
Versatile and time-saving wiring – plug connector. Industry-optimized – ultra-compact design. For hygienic requirements – stainless steel housing.
Pulse/frequency/switch output, Modbus RS485. Custody transfer approvals (MID, NTEP). Excellent, easily cleanable transmitter.

Nominal diameter range
DN 4 (5⁄32"), 8 (5⁄16"), 15 (½"), 25 (1")

Wetted materials
Liner: PFA
Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022), Tantalum,
Platinum

Measured variables
Volume flow

Liquids

Max. measurement error
±0.25 % o.r. ± 1 to 4 m/s (3.3 to 13 ft/s)
±0.5 % o.r. ± 1 mm/s (0.04 in/s)
±5 % o.r.

Measuring range
0.14 to 1.66 l/s (0.035 to 0.44 gal/s)

Max. process pressure
PN 16

Medium temperature range
Seal material EPDM: −20 to +130 °C (−4 to +266 °F)
Seal material Silicone: −20 to +130 °C (−4 to +266 °F)
Seal material Viton: 0 to +150 °C (+32 to +302 °F)

Ambient temperature range
−40 to +60 °C (−40 to +140 °F)

Sensor housing material
1.4308 (304)

Transmitter housing material
1.4308 (304)

Degree of protection
IP66/67, type 4X enclosure

Display/Operation
No local Operation
Configuration via operating tools possible

Outputs
Pulse/frequency/switch output (passive)

Inputs
None

Liquids

Digital communication
Modbus RS485

Power supply
DC 20 to 30 V

Hazardous area approvals
ATEX, IECEx, cCSAus

Product safety
CE

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

Material certificates
3.1 material

Hygienic approvals and certificates
Sanitary approval: 3-A, EHEDG, seals acc. to FDA (except EPDM)

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