Dosimag
electromagnetic flowmeter

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

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
Wetted materials CIP, SIP cleanable. Nominal diameter: DN 4 to 25 (⅛ to 1”). Measuring device conform to FDA.

Transmitter features
Pulse/frequency/switch output, Modbus RS485. Custody transfer approvals (MID, NTEP). Excellent, easily cleanable transmitter.

Nominal diameter range
DN 4 (⅜”), 8 (⅜”), 15 (½”), 25 (1”)

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

Measured variables
Volume flow

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

### Digital communication
Modbus RS485

### Power supply
DC 20 to 30 V
Liquids

**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)

More information [www.us.endress.com/5BH](http://www.us.endress.com/5BH)