

# Dosimag electromagnetic flowmeter

Flowmeter with hygienic design, highest repeatability, and compact, fully-welded housing



More information and current pricing:

[www.endress.com/D5AB](http://www.endress.com/D5AB)

## Benefits:

- High and stable filling performance – high measuring accuracy and repeatability in shortest filling times
- IO-Link allows real-time digital communication for easier commissioning and continuous data availability
- Compact design for optimized machine footprint
- Integrated batching functionality – filling process management solved by the flowmeter
- Automatic recovery of data for servicing
- Global compliance with industry standards – EHEDG, 3-A, FCM, cGMP
- SIP and CIP cleanable

## Specs at a glance

- **Max. measurement error**  $\pm 0.25\%$  o.r.  $\pm 1$  to  $4\text{ m/s}$  ( $3.3$  to  $13\text{ ft/s}$ )
- **Measuring range**  $0.14$  to  $1.66\text{ l/s}$  ( $0.035$  to  $0.44\text{ gal/s}$ )
- **Medium temperature range** Seal material EPDM:  $-20$  to  $+130\text{ }^{\circ}\text{C}$  ( $-4$  to  $+266\text{ }^{\circ}\text{F}$ ) Seal material Silicone:  $-20$  to  $+130\text{ }^{\circ}\text{C}$  ( $-4$  to  $+266\text{ }^{\circ}\text{F}$ ) Seal material Viton:  $0$  to  $+150\text{ }^{\circ}\text{C}$  ( $+32$  to  $+302\text{ }^{\circ}\text{F}$ )
- **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 designed for demanding filling and bottling applications with conductive liquids in Food & Beverage and Life Sciences. In applications where space is limited, Dosimag is the preferred choice for system integrators, skid builders and equipment manufacturers. Dosimag measures volume directly. The bidirectional

measuring principle is virtually independent of pressure, density, temperature and viscosity.

## 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 ( $\frac{1}{8}$  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 to 25 ( $\frac{1}{8}$  to 1")

#### Wetted materials

Liner: PFA

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

#### Measured variables

Volume flow, Temperature (DN15-26)

## Liquids

**Max. measurement error**

$\pm 0.25\%$  o.r.  $\pm 1$  to 4 m/s (3.3 to 13 ft/s)

**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  $+130\text{ }^{\circ}\text{C}$  ( $-4$  to  $+266\text{ }^{\circ}\text{F}$ )

Seal material Silicone:  $-20$  to  $+130\text{ }^{\circ}\text{C}$  ( $-4$  to  $+266\text{ }^{\circ}\text{F}$ )

Seal material Viton:  $0$  to  $+150\text{ }^{\circ}\text{C}$  ( $+32$  to  $+302\text{ }^{\circ}\text{F}$ )

**Ambient temperature range**

$-40$  to  $+60\text{ }^{\circ}\text{C}$  ( $-40$  to  $+140\text{ }^{\circ}\text{F}$ )

**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, IO-Link

## Liquids

### Power supply

DC 20 to 30 V

### Hazardous area approvals

ATEX, IECEx, UL, UK Ex

### 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

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