

# Dosimag electromagnetic flowmeter

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



More information and current pricing:

[www.be.endress.com/5BH](http://www.be.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**  $\pm 0.25\%$  o.r.  $\pm 1$  to  $4$  m/s (3.3 to 13 ft/s)  $\pm 0.5\%$  o.r.  $\pm 1$  mm/s (0.04 in/s)  $\pm 5\%$  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

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### Product headline

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

For demanding dosing and filling applications.

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### 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.

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### 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.

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### Nominal diameter range

DN 4 ( $\frac{5}{32}$ " ), 8 ( $\frac{5}{16}$ " ), 15 ( $\frac{1}{2}$ " ), 25 (1")

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### Wetted materials

Liner: PFA

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

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### Measured variables

Volume flow

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## 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.

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**Measuring range**

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

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**Max. process pressure**

PN 16

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**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)

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**Ambient temperature range**

-40 to +60 °C (-40 to +140 °F)

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**Sensor housing material**

1.4308 (304)

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**Transmitter housing material**

1.4308 (304)

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**Degree of protection**

IP66/67, type 4X enclosure

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**Display/Operation**

No local Operation

Configuration via operating tools possible

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**Outputs**

Pulse/frequency/switch output (passive)

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**Inputs**

None

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## Liquids

### Digital communication

Modbus RS485

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### Power supply

DC 20 to 30 V

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### Hazardous area approvals

ATEX, IECEx, cCSAus

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### Product safety

CE

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### Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc.to ISO/IEC 17025)

NTEP

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### Material certificates

3.1 material

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### Hygienic approvals and certificates

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

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