

# The compact & cost-effective all-rounder. With IO-Link Permanently precise flow measurement with FMQ

## It has everything you really need

The FMQ electromagnetic flow meter is an extremely versatile, robust and reliable device for all conductive media. The performance spectrum is tailored to almost all applications, including dosing and filling applications.

- **FMQ with IO-Link:** Thanks to Flex-Hybrid technology, you can use digital or analog communication or both in parallel
- **Extremely compact:** Minimal size of measuring body and electronics allow easy, vibration-insensitive integration into almost all applications
- **Extremely robust:** All components are completely made of stainless steel. The magnetic field coils of the measuring system are consistently encapsulated, which guarantees permanently reliable, precise measuring results even in very harsh environments with strong vibrations or pressure surges
- **Extremely reliable:** Completely protected against moisture, corrosion and vibrations; vacuum-proof measuring tube lining made of high-quality PFA; process temperature up to 100°C (212 °F), CIP-capable, pigging possible.
- **Always accurate:** Automatic signal processing ensures correct measured values even when changing media (e.g. milk/CIP cleaner)
- **Easy commissioning and operation:** User-friendly, rotatable display with optical buttons, no opening of the housing, no mechanical buttons, for quick and easy programming
- **Manufacturer-independent process connection:** Standard aseptic flange according to DIN 11864, with O-ring (no sanitary-sensitive surface seal), pipe standard DN10 ...DN100 (1/2" ...4")



## Technical specifications at a glance

- **Flex-Hybrid Technology** with digital + analog interface (IO-Link + 4...20 mA)
- **Measuring range** from 30 l/h to 640 000 l/h (8 gal/hr to 169 000 gal/hr)
- **Measuring accuracy:**  $\pm 0,5\%$   $\pm 2\text{mm/s}$
- For liquids, mashes and pastes with a **minimum conductivity** of  $> 5 \mu\text{S/cm}$
- **Process temperature** up to 100 °C (212 °F) permanently
- **CIP-/ SIP-cleaning** up to 130 °C (266 °F) / max. 30 minutes
- Sensor with aseptic flange, many **common process connections** available



## Modular Sensor platform with IO-Link and 4...20 mA

The **Flex-Hybrid Technology** with **IO-Link and 4...20 mA** combines the best of both worlds: Data from the sensor can be transmitted with digital or analog interface or with both in parallel. The bidirectional communication enables status control and preventive maintenance at any time to avoid production downtimes. Installation and commissioning are time- and cost-saving thanks to plug-and-play technology. Sensor replacement is easier than ever before thanks to "Smart Replace Design" with automatic detection, configuration and parameterization.

Main application area: Food | Material: 1.4404 (AISI 316L)

**FMQ** Magnetic-Inductive Flow Meter

### Nominal diameter/size

<b>010</b>	10 mm
<b>015</b>	15 mm
<b>025</b>	25 mm
<b>032</b>	32 mm
<b>040</b>	40 mm
<b>050</b>	50 mm
<b>065</b>	65 mm
<b>080</b>	80 mm
<b>100</b>	100 mm

### Certificate

**S** None

### Display / Cap

<b>L</b>	Optical LED status display (not available with M12 connection options K or L)
<b>B</b>	Blind stainless steel cap
<b>D</b>	Graphic display

### M12 Connection / Communication

<b>O</b>	M12 connector, 4-pin, plastic
<b>K</b>	M12 connector IO-Link, 4-pin, stainless steel
<b>L</b>	M12 connector IO-Link with switch input, 5-pin, stainless steel
<b>S</b>	M12 connector without switch input, 4-pin, stainless steel
<b>M</b>	M12 connector with switch input, 5-pin, stainless steel

### Connection

<b>0</b>	Butt-weld
<b>1</b>	ASME clamp
<b>2</b>	DIN clamp

### Elastomer

<b>A</b>	EPDM
<b>B</b>	Silicone

**FMQ 010 S L O O A**