

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

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

IO-Link technology: digital IO-Link + analog 4...20 mA communication

- **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 tube lining made of high-quality PFA; **process temperature up to 100°C (212 °F) for compact / 165 °C (329 °F) for remote version**, CIP & 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, quick & easy programming
- **Manufacturer-independent process connection:** Standard aseptic flange according to DIN 11864, with O-ring, pipe standard DN10 ...DN100 (1/2" ...4")
- **Remote version** (separate electronics) available, cable length from 1 to 10 m



Technical specifications at a glance

- Technology with digital + analog interface (IO-Link + 4...20 mA)
- Measuring range from 30 U/h to 280 000 U/h
- Measuring accuracy: $\pm 0,5\%$ $\pm 2\text{mm/s}$
- For liquids, mashes and pastes with a conductivity of $> 5 \mu\text{S/cm}$
- Process temperature up to 100 °C (212 °F) for compact / 165 °C (329 °F) for remote version
- CIP-/ SIP-cleaning up to 130 °C (266 °F) / max. 30 minutes



FMQ Compact device with transmitter and head electronics

FMQ Compact Magnetic-Inductive Flow Meter

Nominal diameter/size

- FT010 Meter tube nominal width DN 10
- FT015 Meter tube nominal width DN 15
- FT025 Meter tube nominal width DN 25
- FT032 Meter tube nominal width DN 32
- FT040 Meter tube nominal width DN 40
- FT050 Meter tube nominal width DN 50
- FT065 Meter tube nominal width DN 65
- FT080 Meter tube nominal width DN 80
- FT100 Meter tube nominal width DN 100

Certificate

- S None
- P 3.1 certificates of all wetted parts and factory calibration certificate

Display / Cap

- L Optical LED status light (not available with M12 connection options K or L)
- B Blind stainless steel cap
- D Graphic display

M12 Connection / Communication

- X M12 connector, 4-pin, plastic
- K M12 connector IO-Link, 4-pin, stainless steel
- L M12 connector IO-Link with switch input, 5-pin, stainless steel
- M12 M12 connector without switch input, 4-pin, stainless steel
- M M12 connector with switch input, 5-pin, stainless steel


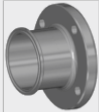
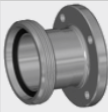
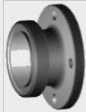



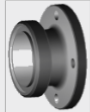
FMQ / FT010 / S / L / X

FMQ-R Remote Magnetic-Inductive Flow Meter

Interconnect Cable

- 1 1 meter length
- 2 2 meter length
- 3 3 meter length
- 4 4 meter length
- 5 5 meter length
- 6 6 meter length
- 7 7 meter length
- 8 8 meter length
- 9 9 meter length
- 10 10 meter length

Process adapters (optional available)

							
SS Weld flange	TC Tri-Clamp	GG Milk pipe fitting	HH Aseptic fitting	VN Varivent	FG FG hygienic flange	DF DIN flange	SM SMS threaded connector