

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 l/h to 300 000 l/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

High precision when it counts: FMI

The electromagnetic flowmeter FMI is the alternative high-end version for higher accuracy requirements:

- **Even higher accuracy:** Measuring accuracy $\pm 0,2\%$ $\pm 1\text{mm/s}$ for high precision applications
- **Even more versatile electronics:** optionally Profibus, optionally remote version with cable length 5 / 10 m.



Technical specifications FMI are equal to FMQ, but measuring accuracy $\pm 0.2\%$ $\pm 1\text{mm/s}$.

For further details please see the FMI product information or www.anderson-negele.com

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