

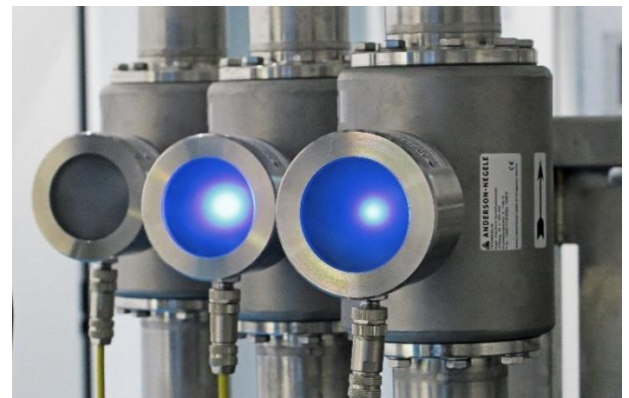
The compact & cost-effective all-rounder. With IO-Link FMQ: Permanently precise flow measurement

It has everything you really need

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 in Flex-Hybrid technology: digital or analog communication or both

- **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), 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, 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")
- **Remote version** (separate electronics) available, cable length from 1 to 10 m



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
- 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) permanently
- 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

SENSORS FOR FOOD AND BIOPHARMA.

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.

FMQ compact device with transmitter and head electronics

FMQ Compact Magnetic-Inductive Flow Meter

Nominal diameter/size

| | |
|--------------|--------------------------------|
| FT010 | Meter tube nominal width DN10 |
| FT015 | Meter tube nominal width DN15 |
| FT025 | Meter tube nominal width DN25 |
| FT032 | Meter tube nominal width DN32 |
| FT040 | Meter tube nominal width DN40 |
| FT050 | Meter tube nominal width DN50 |
| FT065 | Meter tube nominal width DN65 |
| FT080 | Meter tube nominal width DN80 |
| FT100 | Meter tube nominal width DN100 |
| FT125 | Meter tube nominal width DN125 |
| FT150 | Meter tube nominal width DN150 |

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 |