

FLT-M1 Coriolis Durchfluss Modul



The FLT-M1 flow sensor is designed to determine the mass flow of liquids and gases. This is done with a Mini-Coriolis measuring system with an S-shaped measuring tube as well as a temperature sensor.

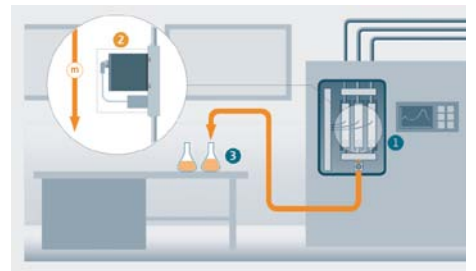
The flow sensor is installed directly in a flow line via a manufacturer-specific connection. When the medium flows through the flow sensor, the Coriolis forces are used to generate the measured value information. The measured values are fed to the higher-level system via a Modbus TTL. Thus, flow measurements for pressure lines up to 100 bar with a measuring rate of 200 Hz (200 measured values per second) can be realized.

Dosing of delicate or expensive liquids

Dosing of delicate liquids consisting of several components. The flow component has been developed specifically for plant engineers. Highest precision with integrated electronics in combination with a very compact design.

Customer benefits:

- Quality improvement: high-precision monitoring/dosing of components.
- Optimize handling of resources



Basic flow module for MFC/MFM solutions

The module can be used as a basic flow module for mass flow meter/controller solutions. The hermetically sealed housing and the flow calibration performed in the manufacturer's factory allow easy integration into existing MFM/MFC platforms. The customer can use his known valve or pump solutions.

Customer benefits:

- Flow module with established Endress+Hauser Coriolis technology
- Reduced time to market for portfolio expansion

Measured variable:

- Mass flow
- Density
- Temperature

Permissible media:

- No medium restrictions.

Measurement accuracy:

- Mass flow: $\pm 0.10\%$ o.r.
- FLT-M1_i1 (DN 1) Zero point stability mass flow: ± 0.0007 kg/h
Max. Deviation mass flow: $\pm 0.10\%$ or ± 0.0007 kg/h
- FLT-M1_i2 (DN 2) Zero point stability mass flow: ± 0.0057 kg/h
Max. Deviation mass flow: $\pm 0.10\%$ or ± 0.0057 kg/h
- Density: ± 5 kg/m³
- Temperature: $\pm 1,0$ K

Permissible flow measuring range:

- FLT-M1_i1: 0...30 kg/h pressure drop depending on flow rate
- FLT-M1_i2: 0...120 kg/h pressure drop depending on flow rate

Permissible pressure range:

Max. 100bar (rel)

Temperature conditions:

-10...+70 °C

Fluidic interface:

Manufacturer-specific connection.

Electrical interface:

Modbus TTL/ solder pins with 1 mm diameter, 7-pin



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