

mini CORI-FLOW

MI130

Low Flow Coriolis Mass Flow Meter / Controller, 0...2 kg/h



Technical specifications

Measurement & control

| | |
|------------------------------|--|
| Type of media | liquids and gases |
| Flow range | liquid: 0...2000 g/h (nominal flow rate: 1000 g/h) gas: 0...26.6 l _n /min (N ₂) full scale (FS) value user-configurable (50...2000 g/h) |
| Accuracy | ±0.2 % Rd (liquids) ±0.5 % Rd (gases) ±5 kg/m ³ (density) |
| Repeatability | ±0.05% Rd ±ZS |
| Turndown ratio | up to 1:2000 |
| Zero point stability (ZS) | < ±0.2 g/h |
| Response time (sensor) | ≤ 200 msec |
| Operating temperature | -20...70 °C |
| Fluid temperature | -20...70 °C |
| Temperature sensitivity | ≤ 0.02 g/h/°C |
| Leak integrity, outboard | < 2 × 10 ⁻⁹ mbar l/s He |
| Mounting | any position |
| Warm-up time | 30 minutes |
| Storage/transport conditions | 0...50 °C, max. 95 % RH (non-condensing) |

Approvals

| | |
|---------------|-----------------------------|
| Marking | CE, UKCA, RoHS, WEEE, REACH |
| Ex-Protection | ATEX Zone 22, IECEx Zone 2 |

Mechanical specs

| | |
|--------------------------------|--|
| Pressure rating (PN) - in barg | 200 |
| Ingress protection | IP66/67 |
| Material wetted parts | stainless steel 316L / 1.4404 |
| Housing material | stainless steel 316L / 1.4404 (body); high-grade anodised aluminium alloy 3.2515 (housing and cover); FKM (sealings) |
| Sealing material | none (in fluid path) |
| Sensor inner diameter | single tube, DN 0.5, Ra ≤ 0.8 μm (typical) |
| Process connections | compression type or face seal (VCR/VCO) fittings, or Tri-Clamp flanges (welded) |
| Weight | 5 kg |

Electrical properties

| | |
|-----------------------|--|
| Power supply | 15...24 Vdc ±10% |
| Power consumption | meter: 2.5 W typical at 24 V controller: 7 W typical at 24 V for fieldbus: add 0.9 W |
| Analog output | 0...5 (10) Vdc or 0 (4)...20 mA (sourcing) |
| Analog setpoint | 0...5 (10) Vdc or 0 (4)...20 mA (sinking) |
| Digital communication | standard: RS232; options: DeviceNet™, CANopen®, PROFIBUS DP, Modbus RTU/ASCII, FLOW-BUS, EtherCAT®, PROFINET, Modbus/TCP, EtherNet/IP, POWERLINK |

Electrical interfaces

| | |
|---|----------------------|
| Actuator output | 4-pin M8 (female) |
| Power (main connector) | Screw terminals |
| Function (instrument connector) | Analog, RS232, RS485 |
| PROFIBUS DP | Screw terminals |
| CANopen / DeviceNet | Screw terminals |
| Modbus RTU/ASCII/FLOW-BUS | Screw terminals |
| Modbus TCP / EtherNet/IP / EtherCAT® / PROFINET / POWERLINK | 2x RJ45 |