

mini CORI-FLOW

MI130

Low Flow Coriolis Mass Flow Meter / Controller



## 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 <sub>N</sub> /min (N <sub>2</sub> ) full scale (FS) value user-configurable
Accuracy	±0.2% Rd (liquids) ±0.5% Rd (gases)
Repeatability	±0.05% Rd ±ZS
Turndown ratio	up to 1:2,000
Zero point stability (ZS)	< ±0.2 g/h
Response time (sensor)	≤ 200 msec
Operating temperature	0...70 °C
Fluid temperature	0...70 °C
Temperature sensitivity	≤ 0.02 g/h/°C
Leak integrity, outboard	< 2 x 10 <sup>-9</sup> 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
Ex-Protection	ATEX Zone 2

### Mechanical specs

Pressure rating (PN)	200
Ingress protection	IP66/67
Surface roughness wetted parts	3.2 µm (Ra max)
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) couplings, 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)

### Electrical interfaces

Actuator output	4-pin M8 (female)
Power (main connector)	Screw terminals
Function (main 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