EN

mini CORI-FLOW

M14

Low Flow Coriolis Mass Flow Meter, 0...30 kg/h



Bronkhorst®

Technical specifications

Measurement & control

Type of media	liquids and gases
Flow range	liquid: 0…30 kg/h gas: 0…400 l_n/min (N_2)
Accuracy	±0.2 % Rd (liquids) ±0.5 % Rd (gases) ±5 kg/m3 (density)
Repeatability	±0.05 % Rd ± ½ (ZS x 100/actual flow)%
Turndown ratio	up to 1:1000
Zero point stability (ZS)	< ±6.0 g/h
Response time (sensor)	≤ 200 msec
Operating temperature	0…70 °C
Fluid temperature	0…70 °C; for ATEX Cat.3, Zone 2 max. 50 °C
Temperature sensitivity	on zero: < 0.5 g/h/°C; on span: < 0.001% Rd/°C; self heating (at zero flow): < 15 °C
Leak integrity, outboard	< 2 x 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 2, KCs

Mechanical specs

Pressure rating (PN) - in barg	200
Ingress protection	IP65
Material wetted parts	stainless steel 316L or Hastelloy C22
Housing material	stainless steel 430F
Sealing material	metal only (in fluid path)
Sensor inner diameter	single tube, DN 1.3
Process connections	compression type or face seal (VCR/VCO) fittings, or Tri-Clamp flanges (welded)
Weight	1.1 kg

Electrical properties

Power supply	15…24 Vdc ±10%
Power consumption	2.5 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; option: DeviceNet™, PROFIBUS DP, Modbus RTU, FLOW-BUS

Electrical interfaces

Actuator output	4-pin M8 (female)
Power (main connector)	8-pin DIN (male)
Function (instrument connector)	Analog, RS232
PROFIBUS DP	5-pin M12 B (female)
CANopen / DeviceNet	5-pin M12A (male)
Modbus RTU/ASCII/FLOW-BUS	5-pin M12A (male)

Additional information

Nominal flow rate: 10 kg/h
Full scale (FS) value is user-configurable (1...30 kg/h)

Approvals:
Default supplied without hazardous area certification; optional certifications include ATEX Zone 2 or KCs.

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