mini CORI-FLOW

M14V14I

Low Flow Coriolis Mass Flow Controller





Technical specifications

Measurement & control

Type of media	liquids
Flow range	liquid: 07 kg/h (nominal flow rate: 7 kg/h) full scale (FS) value is user-configurable (17 kg/h)
Accuracy	±0.2% Rd ±5 kg/m3 (density)
Repeatability	$\pm 0.05~\%$ Rd $\pm~1/2~(ZS~x~100/actual~flow)\%$
Turndown ratio	up to 1:50
Zero point stability (ZS)	<±6.0 g/h
Response time (sensor)	≤200 msec
Operating temperature	070 °C
Fluid temperature	070 °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
Max. Kv-value	2.4 x 10 ⁻³
Mounting	any position
Warm-up time	30 minutes
Storage/transport conditions	050 °C, max. 95 % RH (non-condensing)

Approvals

Marking

Ex	-Pro	tecti	on										

CE, UKCA

Mechanical specs

Pressure rating (PN)	100
Ingress protection	IP65
Material wetted parts	stainless steel 316L
Housing material	stainless steel 430F
Sealing material	FKM, FFKM or EPDM
Plunger material	FKM, FFKM or EPDM
Sensor inner diameter	single tube, DN 1.3
Process connections	compression type or face seal (VCR/VCO) couplings, or Tri-Clamp flanges (welded)
Purge connection	1/8" OD compression type or 1/8" VCR
Weight	1.5 kg

Electrical properties

Power supply	1524 Vdc ±10%
Power consumption	7 W typical at 24 V for fieldbus: add 0.9 W
Analog output	05 (10) Vdc or 0 (4)20 mA (sourcing)
Analog setpoint	05 (10) Vdc or 0 (4)20 mA (sinking)

Electrical interfaces

Actuator output								4-pin M8 (female)													
Po	ower	(ma	in co	nne	tor)						8-pin DIN (male) Analog, RS232										
Fu	ıncti	on (n	nain	conr	ecto	or)															
PROFIBUS DP								8-pin M12B (female)													
CANopen / DeviceNet										5-pin M12A (male)											
Modbus RTU/ASCII/FLOW-BUS									5-pin M12A (male)												