



## Technical specifications

### Measurement & control

Type of media	Gases
Flow range	min. 0,14...7 ml <sub>n</sub> /min max. 0,4...20 l <sub>n</sub> /min
Accuracy	±0.5% Rd plus ±0.1% FS (according SEMI E56)
Repeatability	< 0,2 % RD
Turndown ratio	1:150 (1:50 in analog mode)
Multi fluid capability	embedded gas data for 100 unique gases plus any mixture of maximum 5 of these gases.
Operating temperature	-10...+70°C
Temperature sensitivity	zero: < 0.02% FS/°C; span: < 0.025% Rd/°C
Leak integrity, outboard	tested < 2 x 10 <sup>-9</sup> mbar l/s He
Pressure sensitivity	standard: < 0.15% Rd/bar typical N <sub>2</sub> ; with pressure correction: < 0.02% Rd typical N <sub>2</sub>
Mounting	max. error at 90° off horizontal 0.07% FS at 1 bar, typical N <sub>2</sub>
Warm-up time	30 minutes
Storage/transport conditions	0...+50°C, max. 95% RH (non-condensing)

### Approvals

Electrical safety	IEC 61010-1
Marking	CE, RoHS, WEEE, REACH

### Mechanical specs

Pressure rating (PN) - in barg	100
Ingress protection	IP40
Material wetted parts	stainless steel 316L or comparable, degreased for use on oxygen (O <sub>2</sub> )
Sealing material	standard: FKM/Viton®; options: EPDM, FFKM/Kalrez®, FDA and USP Class VI approved compounds
Process connections	compression type or face seal couplings
Weight	0.6 kg

### Electrical properties

Power supply	+15...24 Vdc
Power consumption	1 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

Power (main connector)	9-pin D-sub (male)
Function (instrument connector)	RS232, Analog, RS485
PROFIBUS DP	9-pin D-sub (female)
CANopen / DeviceNet	5-pin M12A (male)
Modbus RTU/ASCII/FLOW-BUS	RJ45
Modbus TCP / EtherNet/IP / EtherCAT® / PROFINET / POWERLINK	2x RJ45