



Technical specifications

Measurement & control

Type of media	Gases
Flow range	min. 0.2...10 ml _N /min max. 0.4...20 ml _N /min
Accuracy	±1% FS
Repeatability	<±0.2% Rd (or <±0.04% FS whichever is greater)
Turndown ratio	1:50 (2...100%)
Multi fluid capability	storage of max. 8 calibration curves
Response time (sensor)	1 ... 2 sec.
Operating temperature	-10...+70°C
Temperature sensitivity	< 0.1% FS/°C
Leak integrity, outboard	tested < 2 x 10 ⁻⁹ mbar l/s He
Pressure sensitivity	0.1% Rd/bar typical N2; 0.01% Rd/bar typical H2
Mounting	Mount horizontally.
Warm-up time	30 minutes
Storage/transport conditions	0...+50°C, max. 95% RH (non-condensing)

Approvals

Mechanical specs

Pressure rating (PN) - in barg	10
Ingress protection	IP40
Material wetted parts	stainless steel 316L or comparable
Sealing material	standard: FKM/Viton®; options: EPDM, FFKM/Kalrez®, FDA and USP Class VI approved compounds
Process connections	compression type or face seal (VCR/VCO) couplings
Weight	0.4 kg

Electrical properties

Power supply	+15...24 Vdc
Power consumption	3.5 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; options: PROFIBUS DP, CANopen®, DeviceNet™, PROFINET, EtherCAT®, Modbus RTU, ASCII or TCP/IP, EtherNet/IP, POWERLINK, FLOW-BUS

Electrical interfaces

Power (main connector)	9-pin D-sub (male)
Function (instrument connector)	Analog, RS232, 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