



Technical specifications

Measurement & control

Type of media	Gases
Flow range	min. 0.2...10 l _n /min max. 2...100 l _n /min
Accuracy	±0.5% Rd plus ±0.1%FS
Repeatability	<±0.2% Rd (or <±0.04% FS whichever is greater)
Turndown ratio	1:50
Multi fluid capability	storage of max. 8 calibration curves
Settling time (in control, typical)	2...4 seconds
Control stability	≤ ± 0.1 % FS (typical for 1 l _n /min N ₂)
Operating temperature	-10...+70°C
Temperature sensitivity	zero: < 0.05% FS/°C; span: < 0.05% Rd/°C
Leak integrity, outboard	tested < 2 x 10 ⁻⁹ mbar l/s He
Pressure sensitivity	0.1% Rd/bar typical N ₂ ; 0.01% Rd/bar typical H ₂
Mounting	max. error at 90° off horizontal 0.2% at 1 bar, typical N ₂
Warm-up time	30 minutes
Storage/transport conditions	0...+50°C, max. 95% RH (non-condensing)

Approvals

Marking	CE, RoHS, WEEE, REACH
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Mechanical specs

Pressure rating (PN) - in barg	400
Ingress protection	IP40
Material wetted parts	stainless steel 316L or comparable
Sealing material	standard: FKM/Viton®; option: FFKM/Kalrez®
Plunger material	standard: FKM/Viton®; option: FFKM/Kalrez®
Process connections	compression type or face seal (VCR/VCO) couplings
Min. ΔP	6 bard
Max. ΔP	400 bard
Weight	3.4 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