

EX-FLOW

F-107DX

Ex-Protected Mass Flow Meter for High Gas Flow



Technical specifications

Measurement & control

Type of media	Gases
Flow range	min. 3.6...180 m ³ _n /h max. 36...1800 m ³ _n /h
Accuracy	±1% FS up to 1100 m ³ _n /h N ₂ -equivalent
Repeatability	< ±0.2% Rd
Turndown ratio	1:50 (2...100%)
Operating temperature	EX-FLOW sensor: -10...+70°C; XB-coil: -40...+65°C XC-coil: -40...+65°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
Mounting	max. error at 90° off horizontal 0,2% at 1 bar, typical N2
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 1, ATEX Zone 2, IECEx Zone 1, IECEx Zone 2, TIIS/JP Ex, KCS

Mechanical specs

Pressure rating (PN) - in barg	40
Ingress protection	IP65
Material wetted parts	stainless steel 316L or comparable
Housing material	anodized aluminum
Sealing material	standard: FKM/Viton®; options: EPDM, FFKM/Kalrez®
Process connections	Flanged type, according to DIN DN80 or ANSI 4"

Electrical properties

Analog output	15...20 mA (linear). Additional power supply and readout unit required
Analog setpoint	For MFC, additional power supply, readout and control unit required

Electrical interfaces

Function (instrument connector)	Analog
Measuring head	Terminal connection, cable gland M16x1,5