

# F-116AX

Ex-Protected Mass Flow Meter for High Gas Flow



## Technical specifications

### Measurement & control

Type of media	Gases
Flow range	min. 0,4...20 m <sup>3</sup> <sub>n</sub> /h max. 4...200 m <sup>3</sup> <sub>n</sub> /h
Accuracy	±1% FS (incl. linearity, based on actual calibration)
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 <sup>-9</sup> 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	100
Ingress protection	IP65
Material wetted parts	stainless steel 316L or comparable
Housing material	anodized aluminum
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

### 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