

IQ+FLOW
IQF-100C
Microfluidic Mass Flow Meter for Gase



# **Technical specifications**

#### Measurement & control

Type of media	Dry, clean and non-corrosive gases
Flow range	min. 0.210 ml <sub>n</sub> /min
	Max. 0.15 l <sub>n</sub> /min
Accuracy	< ±1.5% Rd + ±0.5% FS
Repeatability	for flows < 20 mln/min: < ±0.2% FS; for flows > 20 mln/min: < ±0.5% Rd
Turndown ratio	1:50 (2100%)
Multi fluid capability	storage of max. 8 calibration curves
Operating temperature	5+50°C
Temperature sensitivity	span: < 0.2% Rd/°C; zero: < 0.01 mln/min/°C
Leak integrity, outboard	1 x 10 <sup>-8</sup> mbar·l/sec He
Pressure drop	20 mbar(d) based on 1 ln/min Air at 0 bar(g)
Mounting	max. error at 90° off horizontal 0.5 mln/min at 1 bar, typical N2
Storage/transport conditions	0+50°C, max. 95% RH (non-condensing)

#### Approvals

Ma	arkin	g					CE						

## **Mechanical specs**

Pressure rating (PN)	10
Ingress protection	IP40
Material wetted parts	body: aluminum or stainless steel SS316L; chip sensor (flow or pressure): Si, SiOx, epoxy, aluminum
Sealing material	standard: Viton <sup>®</sup> ; other on request
Process connections	optional: 10-32 UNF threaded internal nut with 1/16" ferrule (SS316 or Peek); 1/16" or 1/8" OD compression type

## **Electrical properties**

Power supply	+ 15 24 Vdc								
Power consumption	0.75 W typical at 24 V								
Analog output	05 (10) Vdc or 0 (4)20 mA (sourcing)								
Analog setpoint	05 (10) Vdc or 0 (4)20 mA (sinking)								
Digital communication	RS232/RS485 (Modbus RTU/ASCII or FLOW-BUS)								

### **Electrical interfaces**

Power (main connector)	RJ45							
Function (main connector)	Analog, RS232, RS485							
Modbus RTU/ASCII/FLOW-BUS	RJ45							

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