

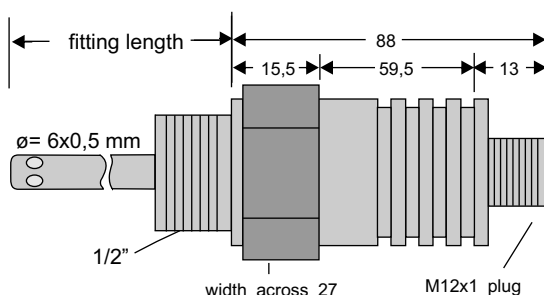
Modular and compact flow sensors

Characteristics

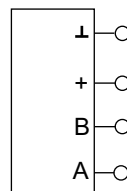


Flow rate: 0...25 m/s (gases)
 Measuring element: calorimetric
 Process terminal thread: several options available
 Output: 4...20 mA / 0...20 mA / 0...10 V
 Interface: RS232 optionally (adaptor necessary)
 Protection IP 67, inside of case completely potted
 Protection tube and case made of stainless steel 1.4571
 Electrical connection: several options available
 Standard thermowell: Ø6 x 0,5 mm
 Voltage supply: 24 VDC +/-10%

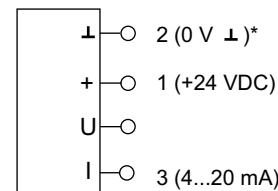
Dimensions, connection (M12x1 plug)



model with interface RS232



model with analogue output



*reference potential for analog outputs

Technical data

Input
 Flow: gases: (non aggressive) 0...25 m/s

Output
 Transducer: 4...20 mA, 0...20 mA,
 Interface (optionally): RS232 (adaptor necessary)

Accuracy
 Sensor: Gases: 0...2 m/s: <5% of end scale value
 2...10 m/s: <10% of end scale value
 Times (approx. values)
 response time after step: <30 s
 standby conditions after make alive: <1 min

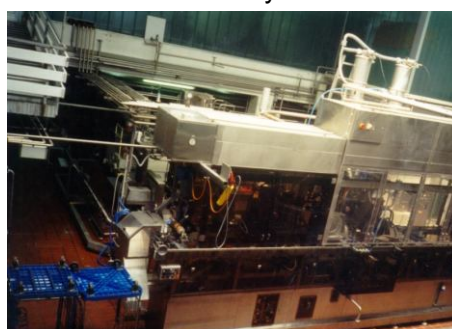
Power supply
 Voltage: 24 VDC +/-10%
 Consumption: 100 mA maximum

Temperature conditions
 Operating: -40...+85°C
 Storing: -40...+100°C

Mechanics
 Case: with MIL plug: Ø 31 x 98 mm + fitting length
 with valve plug: Ø 31 x 102 mm + fitting length
 with plug M12x1: Ø 31 x 88 mm + fitting length
 with cable entry: Ø 31 x 97 mm + fitting length
 Material: protection tube, body of case: stainless steel 1.4571
 Colour: stainless steel natural
 Weight: with MIL plug, fitting length 50 mm: approx. 260 g
 with valve plug, fitting length 50 mm: approx. 220 g
 with plug M12x1, fitting length 50 mm: approx. 220 g
 with cable entry, fitting length 50 mm: approx. 220 g
 Connections: MIL plug D 38999, 6-pole
 valve plug DIN EN 175301-803, 4-pole
 plug M12x1, RSE4 compatible, 4-pole
 cable entry M12x1,5 MS-SC-M, 2 m cable
 Protection: degree IP 67

Applications

For use in applications where measuring of flow is necessary to show tendency of flow rate, as in climating, ventilating and heating installations, fire extinguishing plants or aggregates. Due to the used materials and the compact design, this sensor with its small dimensions is very robust.



Ordering code

M	F	X	X	X	X	X	X	-	X	X	X
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Medium:	gases (please indicate)*	0									
Sensing element:	kalorimetric	0									
Output:	analogue	0									
	RS232	1									
	analogue and RS232 (MIL-plug and cable only)	2									
Accuracy:	standard	0									
Fitting length:	50 mm	0									
	100 mm	1									
	160 mm	2									
	200 mm	3									
	250 mm	4									
	other (please indicate)*	5									
Process connection:	1/4"	0									
	3/8"	1									
	1/2"	2									
	3/4"	3									
	1"	4									
	1/4" NPT	5									
	3/8" NPT	6									
	1/2" NPT	7									
Connection:	Cable entry with 2 m cable	0									
	MIL plug D3899, 6 pole	1									
	valve plug DIN EN 175301-803, 4-pole	2									
	M12x1, 4-pole, RSE4 compatible	3									
Range:	standard									0	
	other range (please indicate)*									1	
Other:	special model										0

*Options:

Fitting length: each value from 10 to 1000 mm
Range transducer: standard is 0...25 m/s for gases
 the transducer can be manufactured to any range within from 0...25 m/s

Transducer

Presetable parameters (via RS232):

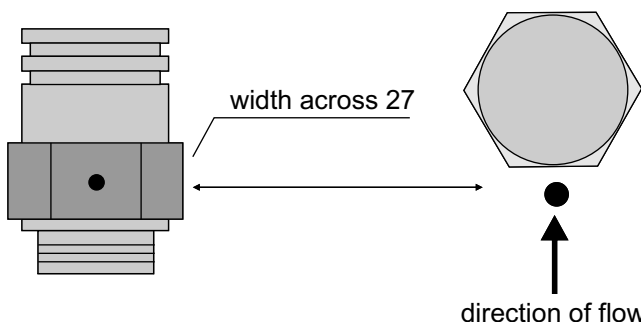
- measurement ranges
- output (analog standard/inverse)
- offset adjustable
- simulation (on/off)
- fault condition reaction
- damping (0... 60s)
- measurement point identification/TAG

Accessories

socket M12x1, 4-pole, RSE4 compatible
 plug MIL, D3899, 6-pole
 cable set for programming MIL
 cable set for programming valve
 software for programming
 protecting tubes

socket valve, DIN EN 175301-803, 4-pole
 adaptor for programming, software
 cable set for programming M12x1
 cable set for programming cable
 flange for ventilating tube

Mounting



The body of the case has a marking (dotting mark). This shows the direction of flow of the medium. The sensor has to be mounted, that the direction of flow is pointing towards the marking (if necessary, washers have to be used).