Characteristics

440 - MODULAR - COMPACT - FLOW

MK

		- Input:	025 m/s (gases)
		- Output:	420 mA / 020 mA / 010 V
		- Medium:	Air, non-corrosive gases
		- Measuring element:	Calorimetric
		- Interface:	Optional RS232 (Adapter necessary)
		- Process connection:	several options
		- Protective tube:	Ø 6 x 0,5 mm (standard)
Ĭ		- Material:	Stainless steel 1.4571
		- Electrical connection:	several options
		- Supply:	24 VDC ±10%
		- Protection class:	IP67, casing inside completely potted

🛑 Technical Data

Input				
Flow:	025 m/s Reference conditions: 20 °C, 1013 hPa			
Medium: Measuring principle:	Air, non-corrosive ga Calorimetric	ISES		
Output				
Current signal:	420 mA / 020 mA	A / 010 V		
Accuracy				
Sensor:	Gases:	02 m/s: <5% of terminal value 210 m/s: <10% of terminal value		
Times (approx. values):	Step response: Availability:	<30 s <1 min. after switch-on		
Current Supply				
Voltage: Current consumption:	24 VDC ±10% 100 mA maximum			

Applications

For usage in applications requiring flow as trend display. E. g. heating installations, ventilating and air-conditioning plants, fire-suppression systems or machine units. The sensor is very resilient, due to its compact design, compact dimensions and the material used.



Modular Compact - Flow - Sensor

Technical Data (Continued)

Environmental Conditions Operating temperature: -40...+85 °C Storage temperature: -40...+100 °C **Mechanics** Casing: with MIL plug: Ø 31 x 98 mm + fitting length with valve plug: Ø 31 x 102 mm + fitting length with M12x1 plug: Ø 31 x 88 mm + fitting length Ø 31 x 97 mm + fitting length with cable gland: Material: Protective tube, casing body: Stainless steel 1.4571 Color: Stainless steel nature approx. 260 g Weight: with MIL plug: approx. 220 g with valve plug: with M12x1 plug: approx. 220 g with cable gland: approx. 220 g (at fitting length 100 mm, weight can deviate depending on fitting length) Connection: MIL plug D38999, 6-pole Valve plug DIN EN 175301-803, 4-pole M12x1 plug, RSE4-compatible, 4-pole Cable gland M12x1,5 MS-SC-M, 2 m cable Protection class: IP67

Setting

Configurable Parameters (via RS232)

- Measurement ranges
- Output (analog standard / inverted)
- adjustable offset
- Simulation (on / off)
- Error behavior
- Damping (0...60 s)
- Measuring point identification / TAG

Mounting



The casing body is marked with a prick-punch mark. The mark indicates flow direction of the medium. When mounting the sensor, the flow direction should point to the mark.

If necessary, use washers.

Electrical Connection



Dimensions (in mm)



Order Code		M F X X X X X X X -	XXX
Medium:	Gases (please specify)*	0	
Sensor element:	Calorimetric	0	
Output:	Analog RS232 Analog and RS232 (MIL plug and cable)	0 1 2	
Accuracy:	Standard	0	
Fitting length:	50 mm 100 mm 160 mm 200 mm 250 mm other length (please specify)*	0 1 2 3 4 5	
Process connection:	1/4" 3/8" 1/2" 3/4" 1" 1/4" NPT 3/8" NPT 1/2" NPT	0 1 2 3 4 5 6 7	
Electr. connection:	Cable gland with 2 m cable MIL plug D3899, 6-pole Valve plug DIN EN 175301-803, 4-pole M12x1, 4-pole, RSE4-compatible		0 1 2 3
Range:	Standard other range (please specify)*		0
Other:	Special model		0

*Options:

Fitting length:	every value between 50 and up to 1000 mm
Range:	Standard for gases is 025 m/s
-	(manufacturing is possible for every range inside of 025 m/s)

Accessories:

Connection box M12x1, 4-pole, RSE4-compatible	Programming wire loom M12x1
Connection box MIL, D3899, 6-pole	Programming wire loom MIL
Connection box valve, DIN EN 175301-803, 4-pole	Programming wire loom valve
Ventilation duct flange	Programming wire loom cable
Protective tubes	Programming software
Programming adapter, software	