

Metering flow switch for water- and oil-based media



Inline flow-captor 432x.8xM

The **Inline flow-captor** type 432x.80/.81M is a family of compact, precise metering flow switches with analog display in a rugged stainless steel housing. They operate based on the calorimetric principle. The flow-captor allows to set an exact flow set-point and will measure simultaneously the flow rate up to the lowest flow conditions.

- Precise switching flow monitor for water or oil-based solutions
- High accuracy also under low flow conditions
- Separate adjustment for "range" and "set-point"
- Relay output with potential-free changeover contact
- Analog display of actual flow rate and display of adjusted set-point value
- LED display for output status
- **ISO 9001: 2015**



Technical Data					
Typ	4320.8xM			4321.8xM	
Medium	water based media			oil-based media	
Sensor Data *1					
Measuring range	0-20 cm/s to 0-300 cm/s, cont. adjust ¹⁾			0-30 cm/s to 0-300 cm/s, cont. adjust ²⁾	
Diameter in mm	8 x1 mm	12 x1 mm	18 x1,5 mm	22 x1,5 mm	28 x1,5 mm
Flow rate at 300 cm/s	5,1 l/min.	4,1 l/min.	31,8 l/min.	51,0 l/min.	88,4 l/min.
Set-point range	approx. 15% - 90% of measuring range setting				
Medium temperature	-20°C to +80°C				
Ambient temperature	-20°C to +70°C				
Pressure	max. 30 bar				
Response time	2s - 10s, according to range setting			2s - 15s, according to range setting	
Linearity deviation	< 5% ¹⁾			< 5% ²⁾	
Repeatability	< 2%				
Hysteresis	approx 10%				
Mechanical Data					
Protection class	IP 67				
Material housing	stainless steel WN 1.4751 (AISI 316 Ti)				
Sensor pipe	stainless steel WN 1.4571 (AISI 316 Ti), (Titanium, Hastelloy® C4® or C22® on request)				
Pipe dimensions (mm) (diameter x wall thickness/ length)	8x1/200,	12x1/200,	18x1,5/200,	22x1,5/200,	28x1,5/200
Housing dimensions ODxH	66 x 91 mm				
Electrical connection	2 m oilflex cabel / 6 x 0,5 mm ²				
Electrical Data					
Operating voltage	90 - 250V AC				
Switching current	≤ 5 A (120 VAC), ≤ 3A (250 VAC), max. 5A 150W at VDC				
Initial operation	approx. 10s after connection of power				
Electrical output	relay output with potential-free changeover contact				
Flow < setpoint	.80			.81	
LED, green	off			off	
output relay	activated			not activated	

¹⁾ all data relate to medium water ²⁾ calibrated with insulation oil type "Shell Diala"

Connection diagram:

