

Inline flow-captor 432x.4xM

The **Inline flow-captor** type 432x.40/.41 **M** 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"
- Analog display of actual flow rate and display of adjusted set-point value
- LED display for output status
- **ISO 9001: 2015**



Technical Data		4320.4xM	4321.4xM			
Typ		water based solution	oil-based solutions			
Medium		water based solution	oil-based solutions			
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⁾			
Flow rate at 300 cm/s		8x1: 5,1 l/min. 18x1,5: 31,8 l/min.	12x1: 14,1 l/min. 22x1,5: 51,0 l/m. 28x1,5: 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 1.4404 / AISI 316 L				
Sensor pipe		stainless steel WN 1.4571 (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
Electrical connection		2 m oilflex cabel / 6 x 0,5 mm ²				
Electrical Data						
Operating voltage		18 - 30 VDC				
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 with potential free contact				
Flow < set-point		.40	.41			
- LED, green		off	off			
- Output relay		activated	not activated			

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

