

## Inline flow-captor 432x.73M

The **flow-captor** 432x.73M is a unique, precise, compact, metering flow switch with adjustable set-point and analog display for industrial applications in stainless steel housing. The functionality is based on the calorimetric principle. The inline flow-captor allows to set an exact flow set-point and to measure simultaneously the flow rate up to the lowest flow conditions.



- Accurate 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 for output status
- **ISO 9001 : 2008**

Technical Data				
Type	<b>4320.73M</b>		<b>4321.73M</b>	
Medium	water based solution		oil-based solutions	
Sensor Data (Inline Pipe)				
Measuring range	0-20 cm/s to 0-300 cm/s, cont. adjust <sup>1)</sup>		0-30 cm/s to 0-300 cm/s, cont. adjust <sup>2)</sup>	
Flow rate at 300 cm/s	6x1: <b>2,25</b> l/min.	8x1: <b>5,1</b> l/min.	12x1: <b>14,1</b> l/min.	18x1,5: <b>31,8</b> 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	up to 30 bar			
Response time	2s - 10s, according to range setting		2s - 15s, according to range setting	
Linearity deviation	< 5% <sup>1)</sup>		< 5% <sup>2)</sup>	
Repeatability	< 2%			
Hysteresis	approx 10%			
Mechanical Data				
Protection class	IP 67			
Material housing	stainless steel WN 1.4404			
Sensor pipe	stainless steel WN 1.4571 (V4A), (Titanium, Hastelloy® C4 on request)			
Pipe dimensions (mm) (diameter x wall thickness)	6x1,	8x1,	12x1,	18x1,5
Electrical connection	2 m oilflex cable 4x0.75 mm <sup>2</sup>			
Electrical Data				
Operating voltage	90-250 VAC/DC			
Switching current	≤ 100 mA			
Initial operation	approx. 10s after connection of power			
Electrical output	Semiconductor, PNP n.o. <sup>3)</sup> : 4320.73M		semiconductor, PNP n.o. <sup>3)</sup> : 4321.73M	

<sup>1)</sup> all data applies to water    <sup>2)</sup> calibrated with insulation oil type "Shell Diala"    <sup>3)</sup> switch open with flow

### Connection diagram

