Metering flow switch for liquid media

Inline flow-captor 432x.1xM



The Inline **flow-captor** type 432x.1xM is a unique, compact, metering flow switch with adjustable set-point and analog display for industrial applications in stainless steel housing. The functionally 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	
Тур	4320.12/.13M 4321.12/.13M
Medium	water based solution oil-based solutions
Sensor Data (Inline Pipe)	
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	6x1: 2,25 l/min. 8x1: 5,1 l/min. 12x1: 14,1 l/min. 18x1,5: 31,8 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	up to 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
Sensor pipe	stainless steel WN 1.4571 (V4A), (Titanium, Hastelloy® C4 on request)
Pipe dimensions (mm) (diameter x wall thickness/length)	6x1/200, 8x1/200, 12x1/200, 18x1,5/200, 22x1,5/200, 28x1,5/200
Electrical connection	Plug M12x1, 4-pin
Electrical Data	
Operating voltage	18 to 30 VDC, incl. residual ripple
Switching current	≤ 400 mA
Initial operation	approx. 10s after connection of power
Electrical output	PNP n.c. ³ : 4320.12M PNP n.c. ³ : 4321.12M PNP n.o. ⁴ : 4320.12M PNP n.o. ⁴ : 4321.12M

¹⁾ all data applies to water 2) calibrated with insulation oil type "Shell Diala" 3) switch open with flow 4) switch closed with flow



