Metering flow switch for liquid media

Inline flow-captor 432x.1xM 10.5 - 36 VDC



The Inline **flow-captor** type 432x.1xM 10.5.- 36 VDC 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: 2015



Technical Data	
Тур	4320.1xM 10.5 - 36 VDC 4321.1xM 10.5 - 36 VDC
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 (I/min.)	8x1: 5,1 L. 12x1: 14,1 L. 18x1,5: 31,8 L. 22x1,5: 51,0 L. 28x1,5: 88,4 L.
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, AISI 316L
Sensor pipe	stainless steel WN 1.4571 (V4A), (Titanium, Hastelloy® C4 on request)
Pipe dimensions (mm) (DxWxL)	8x1x200 12x1x200 18x1,5x200 22x1,5x200 28x1,5x200
Electrical connection	Plug M12x1, 4-pin
Electrical Data	
Operating voltage	10.5 to 36 VDC, incl. residual ripple
Switching current	≤ 400 mA
Initial operation	approx. 10s after connection of power
Electrical output	PNP n.c. ³⁾ : 4320.12M 10.5 - 36 VDC PNP n.o. ⁴⁾ : 4320.12M 10.5 - 36 VDC PNP n.o. ⁴⁾ : 4321.12M 10.5 - 36 VDC

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



