Metering flow switch for liquid media

Inline flow-captor 432x.73M

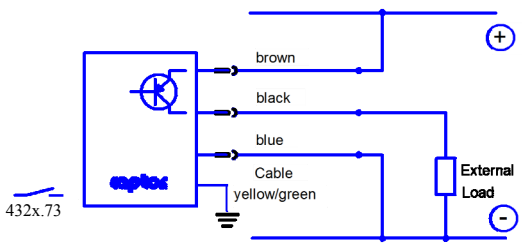
The **flow-captor** 432x.73M is a unique, precise, compact, metering flow switch with adjustable set-point and analog display for industrial applications in stainless steel housing. The functionality is based on the calorimetric principle. The inline flow-captor allows to set an exact flow set-point 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 : 2015**

Technical Data		
Type	**4320.73M**	**4321.73M**
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	8x1: **5,1** l/min. 12x1: **14,1** l/min.	18x1,5: **31,8** 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, AISI 316 L	
Sensor pipe	stainless steel WN 1.4571 (V4A), (Titanium, Hastelloy© C4 on request)	
Pipe dimensions (mm) (diameter x wall thickness)	8x1, 12x1, 18x1,5	
Electrical connection	2 m oilflex cable 4x0.75 mm²	
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.[3] : 4320.73M	semiconductor, PNP n.o.[3] : 4321.73M

[1] all data applies to water [2] calibrated with insulation oil type "Shell Diala" [3] switch open with flow

Connection diagram



weber

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