

Metering flow switch with analog display



Inline flow-captor 432x.8xM

The **Inline flow-captor** type 432x.80/.81M 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"
- Relay output with potential-free changeover contact
- Analog display of actual flow rate and display of adjusted set-point value
- LED display for output status
- **ISO 9001: 2015**



Technical Data				
Typ	4320.8xM		4321.8xM	
Medium	water based media		oil-based media	
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.; 12x1: 14.1 l/min.; 18x1.5: 31.8 l/min.; 22x1.5: 51.0 l/m.			
Flow rate max.	28 x 1.5 mm		28 x 1.5 mm	
	88.36 l/min at 300 cm/s		58.9 l/min at 200 cm/s	
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	2 sec. - 10 sec., according to range setting		2 sec. - 15 sec., according to range setting	
Linearity deviation	< 5 % ¹⁾		< 5 % ²⁾	
Repeatability	< 2 %			
Hysteresis	approx. 10 %			
Temperature drift	< 0.3 % per Kelvin			
Mechanical Data				
Protection class	IP 67			
Material housing	stainless steel WN 1.4751 (AISI 316 Ti)			
Sensor pipe	stainless steel WN 1.4571 (AISI 316 Ti), (other material on request)			
Pipe dimensions (mm) (diameter x wall thickness/ length)	8x1/200,	12x1/200,	18x1,5/200,	22x1,5/200, 28x1,5/200
Housing dimensions ODxH	66 x 91 mm			
Electrical connection	2 m oilflex cabel / 6 x 0,5 mm ²			
Electrical Data				
Operating voltage	90 - 250V AC			
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 output with potential-free changeover contact			
Flow < setpoint	.80		.81	
LED, green	off		off	
output relay	activated		not activated	

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

weber

Sensors GmbH Strohdeich 32
Sensors Ltd. 66 Eastbourne Road, Southport
Sensors LLC. 4462 Bretton Court, Building 1, Suite 7

DE-25377 Kollmar
Merseyside PR8 4DU, UK
Acworth, Georgia 30101, USA

Tel.: +49 (0)4128 - 591 · Fax: - 593
Tel.: +44 (1704) - 551684 · Fax: - 551297
Tel.: +1 (770) 592 - 6630 · Fax: - 592 6640

www.captor.de
info@captor.de
sales@captor.co.uk
sales@captor.com

Inline flow-captor 432x.8xM

Connection diagram:

