

TECHNICAL INFORMATION



Inline flow-captor Type 432-1-

The flow-captor 432-1- 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 a new 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 adjustments for "Range" and "Set-point"
- Analog display of actual flow and display of adjusted set-point
- LED for output status
- **ISO 9002** certified manufacturing

Technical Data

Type	4320.12/.13	4321.12/.13
Medium	water-based solutions	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.
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	2 s to 10 s, acc. to range setting	2 s to 15 s, acc. to range setting
Linearity deviation	< 5% ¹⁾	< 5% ²⁾
Repeatability	< 2%	
Hysteresis	approx. 10 %	

Mechanical Data

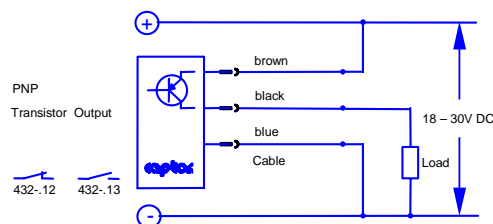
Protection class	IP 67
Housing material	electronics: PBTP, class fibre reinf. (Ultradur [®])
Sensor pipe	stainless steel WN 1.4571 (V4A) (Titanium, Hastelloy C4 [®] on request)
Pipe dimensions in mm (diameter x wall thickness)	6x1, 8x1, 12x1, 18x1,5
Connection	integrated plug connector with PG9 fitting 2m oilflex cable 3 x 0.5mm ² (M12 x 1 male socket on request)

Electrical Data (Electronic Housing)

Operating voltage	18 to 30 V DC, incl. residual ripple	
Switching current	≤ 400 mA	
Initial operation	approx. 10 s after connection of power	
Electrical output	PNP n.c. ³⁾ : 4320.12 M PNP n.o. ⁴⁾ : 4320.13 M	PNP n.c. ³⁾ : 4321.12 M PNP n.o. ⁴⁾ : 4321.13 M

Notes: ¹⁾ data applies to water ²⁾ depends on oil solution type ³⁾ switch open with flow ⁴⁾ switch closed with flow

Connection Diagram



weber

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