weber

flow-captor





Available with inline tubes of 6mm, 8 mm, 12 mm or 18 mm O.D.

flow-captor Type 4320.1- & 4321.1-

The inline flow-captor 4120.1- and 4121.1- is a family of compact industrial metering flow switches with adjustable set-point and analog display.

Their functionality is based on the calorimetric principle. The flow-captor allows the operator to set an exact flow set-point and to measure simultaneously the flow speed.

Accurate switching flow monitor for water- or oil based solutions in 6 mm / 8 mm / 12mm and 18 mm O.D. pipes.

High accuracy also under low flow conditions.

Separate adjustments for RANGE and SET-POINT.

Analog display of actual flow and display of set-point.

LED for flow status.

ISO 9000 certified manufacturing.

CE approval.

Metering inline flow switch for water- and oil-based medium with outstanding accuracy even at low flow conditions.

Adjustments / Display

Measuring range adjustment	RANGE potentiometer
Measuring range display	9 LED display
Set-point adjustment	SET-POINT potentiometer
Set-point display	blinking LED
Switch output display	GREEN LED (on with flow)

Models

	for water based solutions
flow-captor 4321.1-	for oil based solution



flow-captor

Type 4120.1-, 4121.1-metering flow switch

Typical Application Examples:

The flow-captor 412-./1- can be applied in all areas of industries, where exact flow set-points are required, e.g. in systems where a signal is required at a slight deviation of the flow rate above or below the nominal value.

The flow-captor can optimize existing processes in a wide variety of industrial applications.

Technical Data

Туре	4320.12/.13	4321.12/.13
Medium	water-based solutions	oil-based solutions

Sensor Data

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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 tube: 5 gal/min. 8x1 tube: 1.1 gal/min.	12x1 tube: 3.1 gal/min. 18x1.5 tube: 7.0 gal/min.	
Set-point range	approx. 15% - 90% of measuring range setting		
Medium temperature	- 20 °C to +80 °C (- 4 °F to +176 °F)		
Pressure	up to max. 30 bar (450 psi)		
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

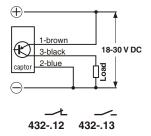
Protection class	IP 65 (equivalent to NEMA 4)		
Housing material	Electronics housing: PBTP, glassfibre reinforced (Ultradur®)		
Sensor tube	stainless steel WN1.4571(V4A, 316 Ti)		
Pipe dimensions	6x1, 8x1, 12x1, 18x1,5 (O.D x wall thickness)		
Connection	integrated plug assembly with PG9 fitting, 2 m oilflex cable 3 x 0.5 mm² also available with M12, 4-pin industrial connector (option)		

Electrical Data (Electronic housing)

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Operating voltage	18 to 30 V DC, incl. r	C, incl. residual ripple (adapter for 110 V available)		
Current consumption	max. 150 mA			
Power consumption	approx. 1 W			
Switching current	400 mA			
Circuit protection	Reverse polarity, short circuit and overload protected			
Voltage drop	< 2,5 V at max. load			
Ambient temperature	- 20 °C to +70 °C (-4 °F to +158 °F)			
Initial operation	approx. 10 s after connection of power			
Electrical output	PNP n.c. 3: 4320.12		PNP n.c. 3): 4321.12	
	PNP n.o. 4): 4320.13		PNP n.o. 4): 4321.13	
Notes: 1) data applies to water	2) depends on oil solution type	3) switch open with flow	4) switch closed with flow	

Connection Diagram:

PNP-transistor output





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