weber

flow-captor





Operating Pressure now up to 100 bar (1.500 psi)

flow-captor Type 4120.1- & 4121.1-

The 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 user to set an exact flow set-point and to measure simultaniously the flow speed.

Accurate switching flow monitor for water- or oil based solutions up to 100 bar.

High accuracy even 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 9000 certified manufacturing.

CE approval.

Metering flow switch for waterand 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

flow-captor 4020.1-	for water based solutions	
flow-captor 4021.1-	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	4120.12/.13	4121.12/.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⁾		
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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. 100 bar (1,500 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	
Housing material	PBTP, glassfibre reinforced (Ultradur®)	
Sensor head	stainless steel WN1,4305 (V2A, 303 Ti)	
	WN1.4571(V4A, 316 Ti), Titanium, Hastelloy C4® on request	
Thread	½" BSP or ½"-14 NPT	
Connection	integrated plug assembly with PG9 fitting, 2 m oilflex cable 3 x 0.5 mm ² also available with M12, 4-pin industrial connector (option)	

Electrical Data (Electronic housing)

Operating voltage	18 to 30 V DC, incl. residual ripple		
Switching current	400 mA		
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⁾ : 4120.12		PNP n.c. 3): 4121.12
	PNP n.o. 4): 4120.13		PNP n.o. 4): 4121.13
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



