TECHNICAL INFORMATION

flow - captor Type 412-.1-

The flow-captor 412-.1- is a family of compact, metering flow switches with adjustable set-point and analog display. They operate based on the new calorimetric principle. The flow-captor allows to set an exact flow setpoint and to measure simultaneously the flow rate up to the lowest conditions.

- Precise switching flow monitor for water or oil based solutions up to 100 bar
- 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 display for output status
- ISO 9002 certified manufacturing
- CE approval

Technical Data

Туре	4120.12/.13	4121.12/.13
Medium	water-based solutions	oil-based solutions
Sensor Data		
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 $^{2)}$
Set-point range	approx. 15%-90% of measuring range setting	approx. 15%-90% of measuring range setting
Medium temperature	-20 °C to +80 °C	
Ambient temperature	-20 °C to +70 °C	
Pressure	up to 100 bar	up to 100 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%	< 2%
Hysteresis	approx. 10 %	approx. 10 %
Mechanical Data		
Protection class	IP 65 (IP 67 on request)	
Housing material	PBTP, glassfibre reinforced (Ultradur ®), also available in stainless steel WN 1.4305	
Sensor head	stainless steel 1.4305 (A:1.4571; B:Titanium; C:Hastelloy®C4; D:Hastelloy®C22)	
Thread	G 1/2 A (1/2 " BSP) or 1/2" - 14 NPT	
Connection	integrated plug connection with PG 9 fitting, 2m oilflex cable 3x0,5 mm ² (M12x1 plug on request)	
Electrical Data (Elec	tronic 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⁾ : 4120.12	PNP n.c. ³⁾ : 4121.12
	PNP n.o. ⁴⁾ : 4120.13	PNP n.o. ⁴⁾ : 4121.13

'' data applies to water depends on oil solution type ' switch open with flow *' switch closed with flow





