

Metering flow switch for liquid media



flow-captor 412x.1xM /19 - 72 VDC

The flow-captor type 412x.1xM /19 - 72 VDC is a family of compact, precise metering, industrial 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.

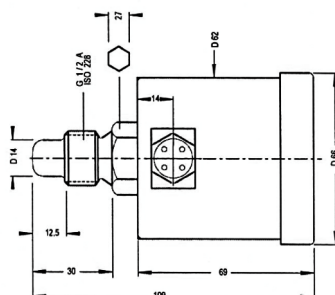


- Precise switching flow monitor for water or oil based solutions **up to 100 bar**
- High accuracy also under low flow conditions
- Separate adjustment for „range“ and „set-point“
- Analog display of actual flow rate and display of adjusted set-point value
- LED display for output status
- **ISO 9001:2015**

Technical Data

Type	4120.1xM /19 - 72 VDC	4121.1xM /19 - 72 VDC
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	
Medium temperature	-20°C to +80°C	
Ambient temperature	-20°C to +70°C	
Pressure	max. 100 bar	
Response time	2 s - 10 s, according to range setting	2 s - 15 s, according to range setting
Linearity deviation	< 5% ¹⁾	< 5% ²⁾
Repeatability	< 2%	
Hysteresis	approx. 10 %	
Mechanical Data		
Protection class	IP 67	
Material Housing	stainless steel WN1.4305 (V2A)	
Material sensor head	stainless steel WN1.4305 (V2A,) - WN 1.4571 (V4A), other materials on request	
Thread	G 1/2 A (1/2 " BSP), alt. 1/2 " - 14 NPT	
Connection	plug M12x1, 4-pin	
Electrical Data		
Operating voltage	19 VDC to 72 VDC, incl. residual ripple	
Switching current / Contact load	≤ 300 mA	
Initial operation	approx. 10 s after connection of power	
Electrical output	PNP n.c. ³⁾ : 4120.12 M 24/48 V	PNP n.c. ³⁾ : 4121.12 M 24/48 V
- Transistor	PNP n.o. ⁴⁾ : 4120.13 M 24/48 V	PNP n.o. ⁴⁾ : 4121.13 M 24/48 V
- Relay	on request	

¹⁾ data relate to water ²⁾ calibrated with insulation oil type "Shell Diala" ³⁾ switch opens with flow ⁴⁾ switch closes with flow



Connection diagram

