Metering flow switch for liquid media

flow-captor 412x.4xM S140

captor ®

The flow-captor type 412-.40/.41**M** is a family of compact, precise metering flow switches with analog display in a rugged stainless steel housing. Its functionality is based upon 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.
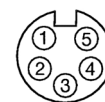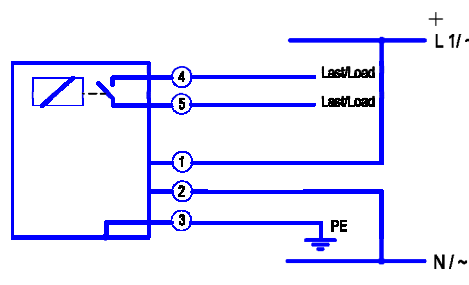
- Precise switching flow monitor for water or oil based solutions **up to 100 bar**
- High accuracy also under low flow conditions
- Seperate adjustment for „range" and „set-point"
- Analog display of actual flow rate and display of adjusted set-point value
- LED display for output status
- **ISO 9001:2015**

Technical Data		
Typ	4120.4xM S140	4121.4xM S140
Medium	water-based solutions	oil-based solutions
Sensor Data *[1]		
Measuring range	0-20 cm/s to 0-300 cm/s, cont. adjust	0-30 cm/s to 0-300 cm/s, cont. adjust
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 (1000 Kpa)	
Response time	2s - 10s, according to range setting	2s -15s, according to range setting
Linearity deviation	< 5% [1]	< 5% [2]
Repeatability	< 2%	
Hysteresis	approx. 10%	
Mechanical Data		
Protection class	IP67	
Material housing	stainless steel AISI 303	
Material of sensor probe	stainless steel AISI 303, AISI 316Ti, Titanium or Hastelloy C4/C22 on request	
Thread	G ½" BSP alt. ½" 14 - NPT	
Housing dimensions ODxH	OD 66 X H 109/69	
Electrical connection	Brad-Harrison male socket, 5-pin (order cable type 4930 separately)	
Electrical Data		
Operating voltage	18 - 30 VDC	
Power consumption	-	
Switching current	max. 5A (120VAC) / max. ≤3A (250 VAC) / max. 5A (150W at VDC)	
Initial operation	approx. 10s after connection of power	
Electrical output	Relay with potential free contact	
Flow < set-point	.40	.41
- LED, green	off	off
- Output relay	activated	not activated

[1] data relate to water   [2] calibrated with insulation oil type "Shell Diala"

Connection diagram

Face view of male