

The **flow-captor type 412-.80/.81M** is a family of compact, precise metering 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		
Typ	4120.8xM	4121.8xM
Medium	water-based solutions	oil-based solutions
Sensor Data *1		
Measuring range	0-20 cm/s to 0-300 cm/s, cont. adjustable	0-30 cm/s to 0-300 cm/s, cont. adjustable
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% <sup>1)</sup>	< 5% <sup>2)</sup>
Repeatability	< 2%	
Hysteresis	approx. 10%	
Mechanical Data		
Protection class	IP67	
Material housing	stainless steel AISI 303	
Material of sensor probe	stainless steel <b>AISI 303</b> , AISI 316Ti, Titanium or Hastelloy C4/C22 on request	
Thread	G 1½" BSP alt. ½" 14 - NPT	
Housing dimensions ODxH	OD 66 X H 109/69	
Electrical connection	2 m oilflex cable 6 x 0,5 mm <sup>2</sup>	
Electrical Data		
Operating voltage	90 - 250 VAC/DC	
Switching current	≤5A (120VAC) / ≤3A (250 VAC), max. 5A at 150W VDC	
Initial operation	approx. 10s after connection of power	
Electrical output	Relay with potential contact	
Flow < set-point	.80	.81
- LED, green	off	off
- Output relay	activated	not activated

<sup>1)</sup> data relate to water <sup>2)</sup> calibrated with insulation oil type "Shell Diala"

