

Inline flow-captor 432x.80/.81M

metering flow switch with analog display



The Inline flow-captor type 432-.80/.81 M 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
- 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 9002** certified manufacturing



Technical Data	
Typ	4320.80/81 4321.80/81
Medium	water based solution oil-based solutions
Sensor Data * ¹	
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⁾
Flow rate at 300 cm/s	6x1: 2,25 l/min. 8x1: 5,1 l/min. 12x1: 14,1 l/min. 18x1,5: 31,8 l/min. 22x1,5: 51,0 l/m. 28x1,5: 88,4 l/min.
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. 30 bar
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	IP 67
Material housing	stainless steel WN 1.4305 / AISI 303
Sensor pipe	stainless steel WN 1.4571 (316 Ti), (Titanium, Hastelloy® C4 or C22 on request)
Pipe dimensions (mm) (diameter x wall thickness/length)	6x1/200, 8x1/200, 12x1/200, 18x1,5/200, 22x1,5/200, 28x1,5/200
Housing dimensions ODxH	66 x 91 mm
Electrical connection	2 m oilflex cabel / 6 x 0,5 mm ²
Electrical Data	
Operating voltage	90 - 250 VAC
Power consumption	1,3 VA
Switching current	≤ 5A (30 VDC / 240 VAC)
Initial operation	approx. 10s after connection of power
Electrical output	.80 normally closed (n.c.), .81 normally open (n.o.)

¹⁾ all data relate to medium water ²⁾ all data relate to medium oil

