Self-contained flow-meter

flow-captor 4311.30M/xx



The **inline flow-captor** type 4311.30M is a flow meter for industrial applications. The compact unit is self-contained and needs no additional parts. The stainless steel pipe itself, running through the center of the inline flow-captor, is the actual sensor element. According to a calorimetric principle a small part of this pipe is electrically heated, such that it is marginally above the temperature of the medium. This heat flow, depending on the flow speed of the medium, is measured electronically and provides an output signal linear and proportional to the flow speed.

- Self-contained flow meter for measurement and control applications
- Suitable for liquids, semi-solids and a wide range of corrosive media
- Separate adjustment for "range" and "zero-point"
- LED display for output status
- ISO 9001:2008 certified manufacturing



Technical Data	
Тур	4311.30M/xx
Medium	liquids, pastes (corrosive media which are compatible with the sensor tube material)
Sensor Data *1	
Measuring range	0-20 cm/s to 0-100 cm/s, cont. adjustable *
Medium temperature	- 10°C to + 80°C
Ambient temperature	- 10°C to + 60°C
Response time	2-10 s. according to measuring conditions
Linearity deviation	< 0,5% (best fitting slope)
Repeatability	< 2%
Temperature-drift	< 0,3%/K
Mechanical Data	
Protection class	IP67
Operation pressure	max. 30 bar
Material housing	stainless steel AISI 303
Material of sensor tube	stainless steel AISI 316Ti, Titanium or Hastelloy C4/C22 on request
Torsion	max. 5 Nm at medium and ambient temperature <40°C
Tube to housing	At higher temperatures not torsion allowed
Housing dimensions	Sensor tube Housing 8 x 1 (diameter x wall thickness) 65 x 50 x 35 (LxWxH) 12 x 1 ; 18 x 1,5 (diameter x wall thickness) 65 x 98 x 37 (LxWxH) 22 x 1,5; 28 x 1,5 (diameter x wall thickness) 80 x 120x55 (LxWxH)
Electrical connection	2 m oilflex cable
Electrical Data	
Operating voltage	24 VDC ±10%
Current consumption	max. 100 mA
Output current	4 - 20 mA
Resistive load	0 - 600 Ohm
LED indication	green LED, within the range: ON; beyond the range: OFF)

^{*1)} data relate to water

Connection diagram:



