Self-contained inline flow-meter

flow-captor 4311.30

The inline **flow-captor** type 4311.30 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. The functionality is based on a calorimetric principle.
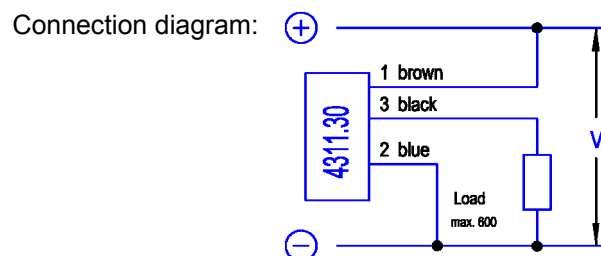
The sensor tube is an integral part of the inline flow-captor and is made of stainless steel 316Ti. For aggressive media special sensor tube materials as Titanium and Hastelloy can be offered. Due to the full encapsulation the sensor is extremely robust and resistant to mechanical stress

- Self-contained flow meter for measurement and control applications
- Suitable for water and oil based solution
- Separate adjustment for „range" and „zero-point"
- **ISO 9001:2008**

Technical Data	
Typ	**4311.30**
Medium	Water and oil based media
Sensor Data	
Measuring range	0-20 cm/s to 0-100 cm/s, cont. adjustable *
Medium temperature	- 10℃ to + 80℃
Ambient temperature	- 10℃ to + 60℃
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	IP65
Operation pressure	max. 30 bar
Material housing	Macrolon
Material of sensor tube	Stainless steel **AISI 316Ti**, Titanium or Hastelloy C4/C22 on request
Torsion	Max. 10 Nm at medium and ambient temperature <40℃
Tube to housing	At higher temperatures not torsion allowed
Sensor tube (mm) diameter x wall thickness	6 x 1 / 8 x 1 12 x 1 / 18 x 1,5 22 x 1,5 / 28 x 1,5
Housing dimensions (mm)	65 x 50 x 35 65 x 98 x 37 80 x 120 x 55
Electrical connection	2 m oilflex cable, 3 x 0,5 mm²
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)

* data relate to water

Connection diagram:

1 brown
3 black
2 blue
4311.30
Load max. 600
V

weber