

# flow meter for liquid media



## flow-captor 4311.30

The flow-captor Type 4311.30 is a non-reactive flow meter, ideal for all measurement and control tasks in automation processes or other industrial applications. The 4311.30 is an inline model specially designed for installation in smaller pipe diameters. The sensor works according to the calorimetric measuring principle. The detection takes place in the inline tube, whereby the sensor measures the "heat flow" depending on the flow velocity of the medium and converts it into a linearized, flow-proportional, electrical signal.

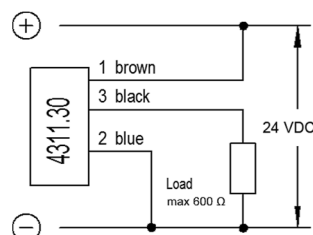


- for small pipe sizes from ID4 up to ID25
- analogue current output 4 – 20 mA
- ideal also for lower flow velocities
- robust industrial design (fully encapsulated)
- electronic
- no mechanically moved parts
- **ISO 9001:2015**

Technical data	
Type	<b>4311.30</b>
Medium	water-based (oil-based on request)
Sensor data	
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 sec. - 10 sec. according to measuring conditions
Linearity deviation	< 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 (other material on request)
Torsion	max. 10 Nm at medium and ambient temperature < 40 °C
Tube to housing	at higher temperatures no 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 mm <sup>2</sup>
Electrical data	
Operating voltage	24 VDC ± 10 %
Current consumption	max. 100 mA
Output current	4 - 20 mA
Resistive load	0 - 600 Ω
LED indication	green LED: operation within the range: ON, operation beyond the range: OFF

\* data relate to water

Connection diagram:



**weber**

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