

TECHNICAL INFORMATION



micro flow-captor type 4511.30 / x

The micro flow-captor is an inline flow meter for smallest flow resolutions up to < 0.1ml/min. With this new generation micro flow-captor weber Sensors adapts the assets of the calorimetric principle especially onto the micro flow range.

- Smallest sensor pipes 4x1 (ID2), 6x1 (ID4)
- Undisturbed inline flow
- For liquid media
- Detection of smallest flows
- Compact, no additional parts needed



Sensor data

Type	pipe diameter	Measuring range
4511.30 / 4	4 x 1mm (ID 2)	0,1 – 2,0ml/min (~ 0,05 – 1cm/s)
4511.30 / 6	6 x 1mm (ID 4)	0,4 – 7,5ml/min (~ 0,05 – 1cm/s)

Range adjustment	2 potentiometers (zero, range)
Linearity deviation	< 5 % (best fitting slope)
Repeatability tolerance	< 3%
Temperature drift	< 0,3 % / K
Medium	liquids, all data on base of water
Medium temperature	-10 °C to +80°C
Ambient temperature	-10 °C to +60°C

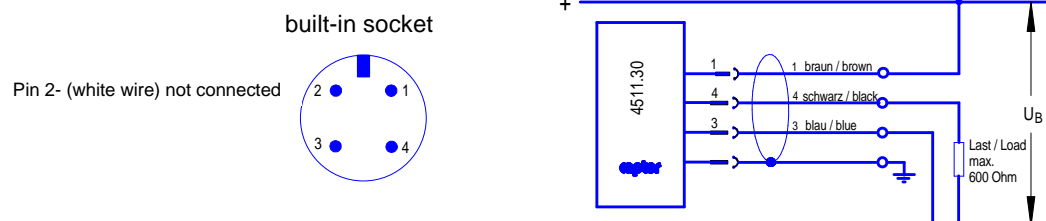
Mechanical data

	Inline – sensor pipe	Housing
Material	Stainless steel WN 1.4571 (V4A) Titan, Hastelloy on request	Makrolon®
Dimensions in mm	4x1, 6x1mm (outer diameter x wall thickness) length 160mm	98x65x37mm (W x H x D)
Operating pressure	maximum 10 bar	
Protected standard	IP 65	
Electrical connection	M12, 4 pole + 2m connection cable 3 x 0,34 mm ² , shielded + socket	
Torsion Pipe to housing	≤ 10 Nm to ≤ 40 °C ambient temperature	

Electrical data

Voltage supply	24 VDC ± 10%
Current consumption	max. 100mA
Output current	4 - 20 mA
Resistive load	0 - 600 Ohms

Connection diagram



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Seite 1 / 1

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