

# TECHNICAL INFORMATION



## micro flow-captor Type 4511.30 / x

The micro flow-captor is an inline flow meter for smallest flow resolutions up to < 0,1 ml/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 4 x 1 (ID2), 6 x 1 (ID4)
- Undisturbed inline flow
- For liquid media
- Detection of very low flow rates
- Compact, no additional parts needed



### Sensor data

Type	Pipe diameter	Measuring range
4511.30/4	4 x 1 mm (ID 2)	1 – 20 ml/min.
4511.30/6	6 x 1 mm (ID 4)	4 – 75 ml/min.

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

### Mechanical data

Material	Inline – sensor pipe	Gehäuse
	Stainless steel (Aisi 316Ti) Titanium (B), Hastelloy on request (C)	Makrolon®
Dimensions in mm	4 x 1, 6 x 1 mm (OD x wall thickness) tube length 160 mm	98 x 65 x 37mm (W x H x D)
Operating pressure	Max. 10 bar	
Protection class	IP 65	
Electrical connection	M12, 4-pin + 2 m connection cable 3 x 0,34 mm <sup>2</sup> , shielded and coupling	
Torsion / pipe to housing	≤ 10 Nm to ≤ 40°C ambient temperature	

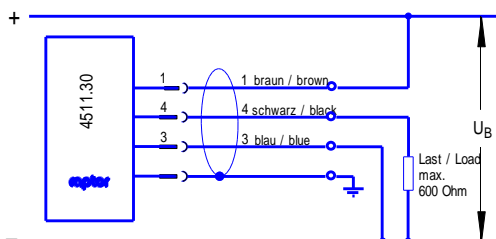
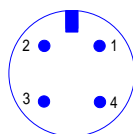
### Electrical data

Operating voltage	24 VDC ± 10%
Current consumption	max. 100mA
Output current	4 - 20 mA
Resistive load	0 - 600 Ohm

### Connection diagram

built in socket

Pin2 (white lead) not connected



# weber

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REV: AA / 20.10.05  
gez.: Wip./ Wil

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