

# inline flow meter for smallest flow resolutions



## flow-captor 4511.30 / x

The micro **flow-captor** is an inline flow meter for smallest flow resolutions up to  $< 0.1\text{ml/min}$ . 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 4x1 (ID2), 6x1 (ID4)
- Undisturbed inline flow
- For liquid media
- Detection of smallest flows
- Compact, no additional parts needed
- **ISO 9001:2008**



### Technical Data

Type	4511.30 / 4	4511.30 / 6
pipe diameter	4 x 1mm (ID 2)	6 x 1mm (ID 4)
Measuring range	0,1 – 20ml/min ( $\approx 0,05 - 10\text{cm/s}$ )	0,4 – 75ml/min ( $\approx 0,05 - 10\text{cm/s}$ )

### Sensor Data

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

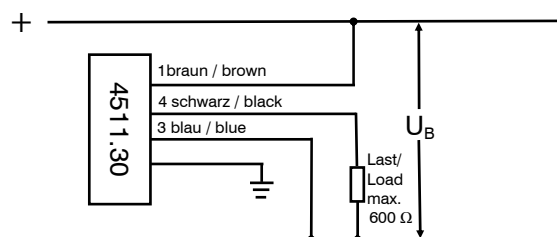
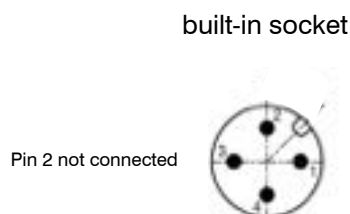
### Mechanical data

Protected standard	IP 65
Operating pressure	max.10 bar
Housing	Makrolon® 98x65x37mm (B x H x T)
Inline – sensor pipe	Stainless steel WN 1.4571 (V4A)Titan <b>(B)</b> , Hastelloy on request <b>(C)</b> 4x1, 6x1mm 4x1, 6x1mm (outer diameter x wall thickness) length 160mm
Tube to housing	At higher temperatures not torsion allowed
Torsion	Max. 6 Nm at medium and ambient temperature $< 40^\circ\text{C}$
Electrical connection	M12, 4 pole + 2m connection cable 3 x 0,34 mm <sup>2</sup> , shielded + socket

### Electrical data

Voltage supply	24 VDC $\pm 10\%$
Current consumption	max. 100mA
Output current	4 - 20 mA
Resistive load	0 - 600 $\Omega$

### Connection diagram



# weber

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