

## 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 9001:2015**



### Technical Data

Type	<b>4511.30 / 4</b>	<b>4511.30 / 6</b>
pipe diameter	4 x 1mm (ID 2)*	6 x 1mm (ID 4)
Measuring range	min.linear range 0.1 - 1 ml/min ( $\approx 0.05 - 0.5\text{ cm/s}$ )	min.linear range 0.4 - 4 ml/min ( $\approx 0.05 - 0.5\text{ cm/s}$ )
'With increased linearity deviation	max. linear range 1 - 20ml/min ( $\approx 0.5 - 10\text{ cm/s}$ )	max. linear range 4 - 75 ml/min ( $\approx 0.5 - 10\text{ cm/s}$ )
	extended range 1 - 47 ml/min ( $\approx 0.5 - 25\text{ cm/s}$ ) <sup>1</sup>	extended range 4 - 190 ml/min ( $\approx 0.5 - 25\text{ cm/s}$ ) <sup>1</sup>

### Sensor Data<sup>1</sup>

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 C4 ( <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°C
Electrical connection	4 pole M12 / 2m connection cable 4 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 $\Omega$

<sup>1</sup>all data related to water , \*Titanium and hastelloy C22 not available

### Connection diagram

built-in socket

