

# TECHNICAL INFORMATION

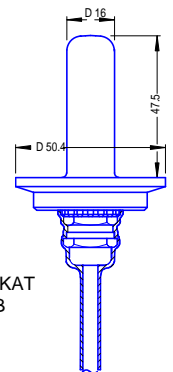
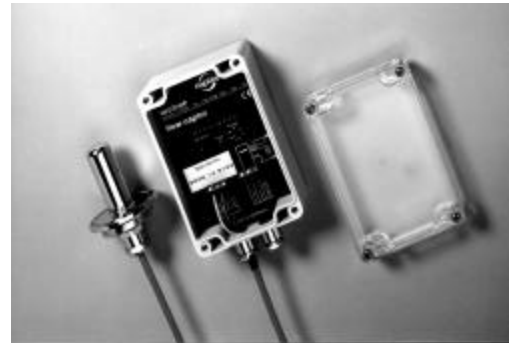
## flow-captor for TRI-CLAMP® -System

### Type 4120 S103 + 4020.1- S103



The flow-captor type 4120 S103 + 4020.1- S103 is a family of compact, precise metering flow switches with analog display for food industry. They operate based on the calorimetric principle. The flow-captor allows to set an exact flow set-point and will measure simultaneously the actual flow rate.

- Precise switching flow monitor for water based solutions up to **100 bar**
- High accuracy even under low flow conditions
- Separate adjustment for "range" and „set-point“
- Analog display of actual flow rate and display of adjusted set-point value
- LED display for output status
- **ISO 9002** certified manufacturing
- Provided for TRI-CLAMP® -System



712056.KAT  
REV: AB

#### Technical Data

Type	4120 S103 + 4020.1- S103
Medium	water based solutions

#### Sensor Data

Measuring range	0-20 cm/s to 0-300 cm/s, cont. adjust. <sup>1)</sup>
Set-point range	approx. 15%-90 % of measuring range setting
Medium temperature	-20 °C to +80 °C
Pressure	up to 100 bar
Response time	2 s - 10 s, according to range setting
Linearity deviation	< 5% <sup>1)</sup>
Repeatability	< 2%
Hysteresis	approx. 10 %
Temperature drift	<0,3%/K

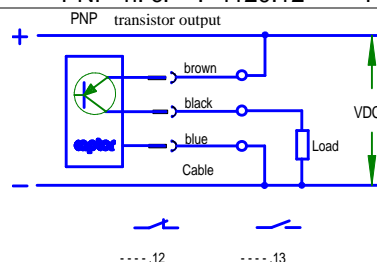
#### Mechanical Data

Protection class	IP 65
Housing	PBTP, glass fibre reinforced ( Ultradur® )
Sensor head	Stainless Steel WN 1.4571 ( 316Ti ), (Titanium, Hastelloy C4® on request )
Pipe connection	closing D50,5 mm
Cable connection	Integrated plug assembly with PG9 fitting, 2 m oilflex cable 3 x 0,5 mm <sup>2</sup>

#### Electrical Data ( Electronic unit )

Operating voltage	18 to 30 V DC, incl. residual ripple
Switching current	≤ 400 mA
Ambient temperature	-20 °C to +70 °C
Initial operation	approx. 10 s after connection of power
Electrical output	PNP n. c. <sup>2)</sup> : 4120.12    PNP n. o. <sup>3)</sup> : 4120.13

- <sup>1)</sup> data apply to water  
<sup>2)</sup> switch open with flow  
<sup>3)</sup> switch closed with flow



Connection diagram

# weber

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