

# Flow meter for liquid media



## flow-captor 4115 S101 + 4015.30 S101

### Installation and Adjustment Instructions

Please read carefully: No liability can be accepted for damage caused by improper use of the captor.

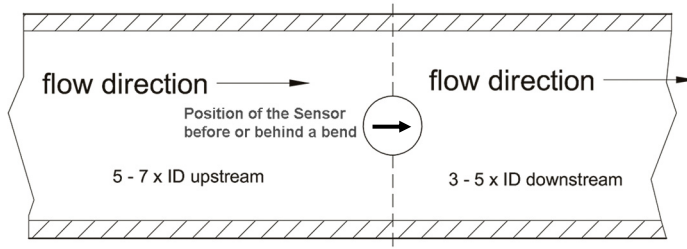
#### 1.0 Items delivered

- 1.1 **flow-captor** 4115 S101 + 4015.30 S101
- 1.2 **Union nut**  
**Stainless steel** G 1" A stainless steel AISI 303
- 1.3 **O-ring for** G 1" A
- 1.4 **Screwdriver for adjustment**



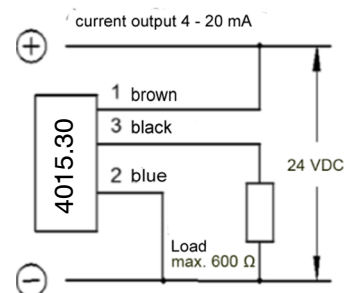
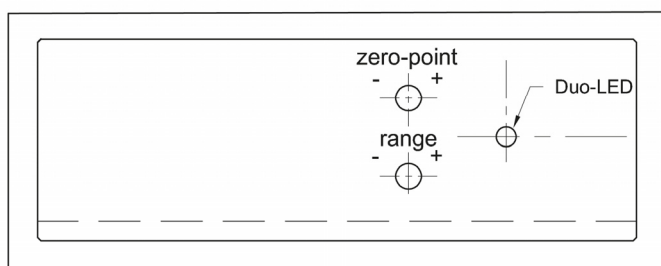
#### 2.0 Installation Instructions

- 2.1 **Installation depth:** 1/7 x ID, min. 5 mm
- 2.2 **Orientation to flow:** see sketch  $\longrightarrow$
- 2.3 **Fitting position:** preferably in vertical pipes with ascending flow or in horizontal pipes with flow-captor in horizontal position. For optimal flow, pipe should be 5 - 7 x ID before, and 3 - 5 x ID behind the flow-captor.
- 2.4 **Mounting:** push O-ring over the sensing surface and housing to the flange. Insert flow-captor into the fitting which is welded onto the pipe and hold in place with the union nut. Ideal sealing is achieved by a fitting of a 4 - 5 mm wall (fittings available).
- 2.5 **Initial operation:** connect flow-captor to 24 VDC according to connection diagram and wait approx. 2 minutes before starting adjustment. The flow-captor has been preset under test pipe conditions to a flow range of 0 - 200 cm/s (related to water). At customer's plant signal may vary depending on individual mounting and medium conditions. Output current is 4 - 20 mA. If re-adjustment is required, please refer to point 3.



#### 3.0 Adjustment Procedure

- 3.1 **Zero point adjustment in stationary medium (roughly):**  
adjust zero point potentiometer after 2 min. so,  
that output current  $\gg$  4 mA, i.e. at output current  $>$  4 mA turn potentiometer to the left,  
at output current  $<$  4 mA turn potentiometer to the right.
- 3.2 **Measuring range adjustment at max. flow:**  
adjustable from 0 - 20 cm/s to 0 - 200 cm/s (medium water). Accelerate flow of the medium to a point, where the flow-captor should give an output signal of 20 mA and wait min. 2 minutes. Turn range potentiometer until output current = 20 mA (to the left output current will be greater, to the right output current will be smaller). The color of the LED will change from green (output current = 20 mA) to red (exceeding measuring range).
- 3.3 **Fine adjustment of zero point:** after at least 3 minutes standstill of flow turn zero point slightly so, that output current is just 4 mA (turning direction as in 3.1).
- 3.4 **Repeat adjustment according to 3.2 and 3.3 until the zero point (4 mA) or max. range setting (20 mA) remains constant.**



**weber**

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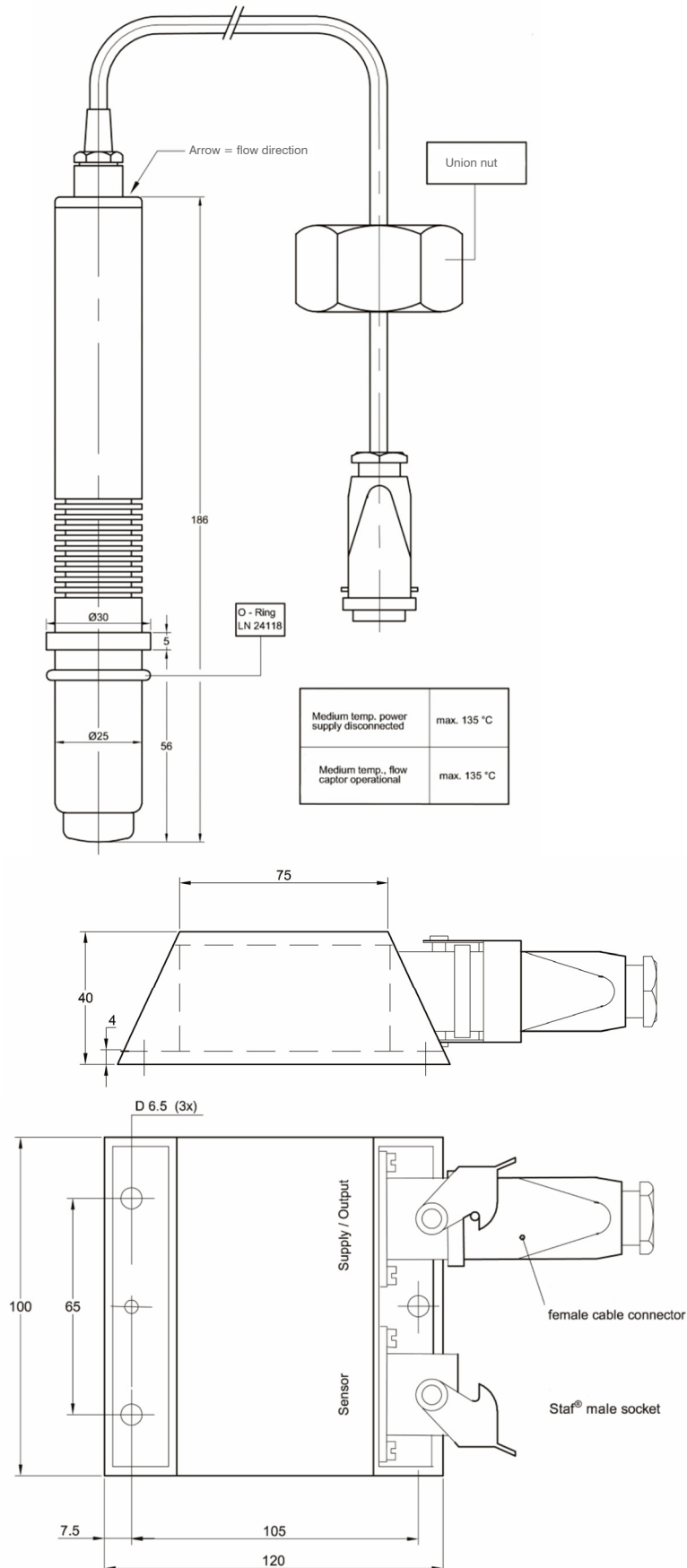
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Technical data subject to alteration! Rev. AB/ 27.06.19

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