

Flow meter for liquid media

flow-captor 4115 S101 + 4015.30 S101

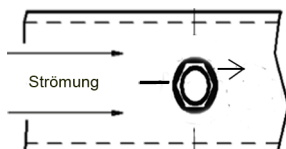


Installation and Adjustment Instructions

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 4115.30
- 1.2 Union nut
Stainless steel G 1" A Edelstahl 1.4305 (303)
- 1.3 O-ring for G 1" A
- 1.4 Screwdriver for adjustment

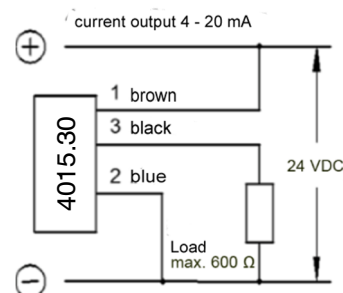
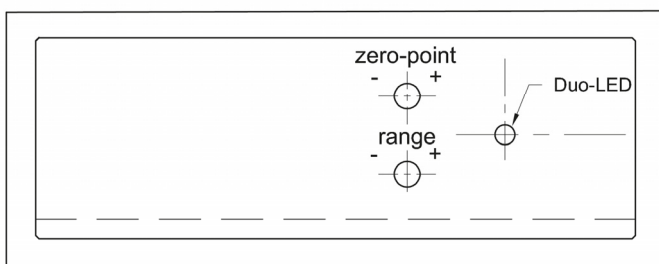


2.0 Installation Instructions

- 2.1 Installation depth: $1/7 \times ID$, min. 5 mm
- 2.2 Orientation to flow: see drawing
- 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 dependant 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 $I_a \approx 4$ mA, i.e. at $I_a > 4$ mA turn pot. to the left,
at $I_a < 4$ mA turn pot. to the right.
- 3.2 Measuring range adjustment at max. flow: Measuring range:
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 pot. until $I_a = 20$ mA (to the left I_a will be greater, to the right I_a will be smaller). The color of the LED will change from green ($I_a = 20$ 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 I_a 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.



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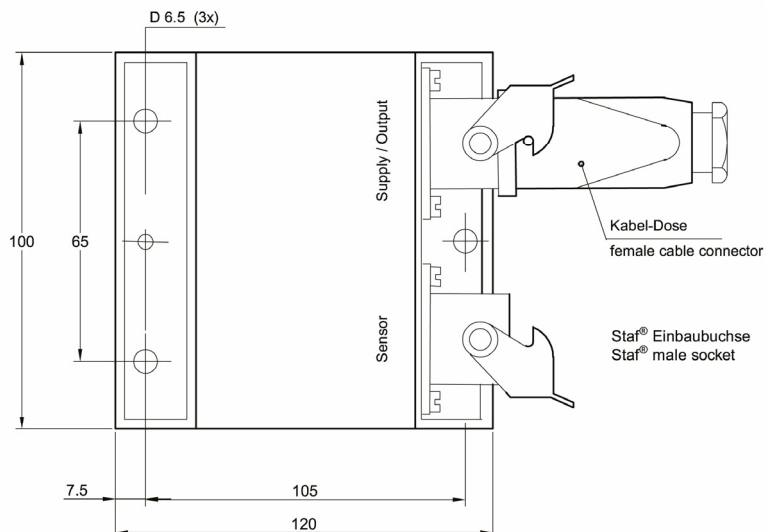
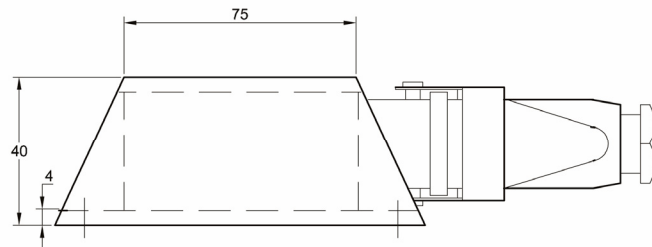
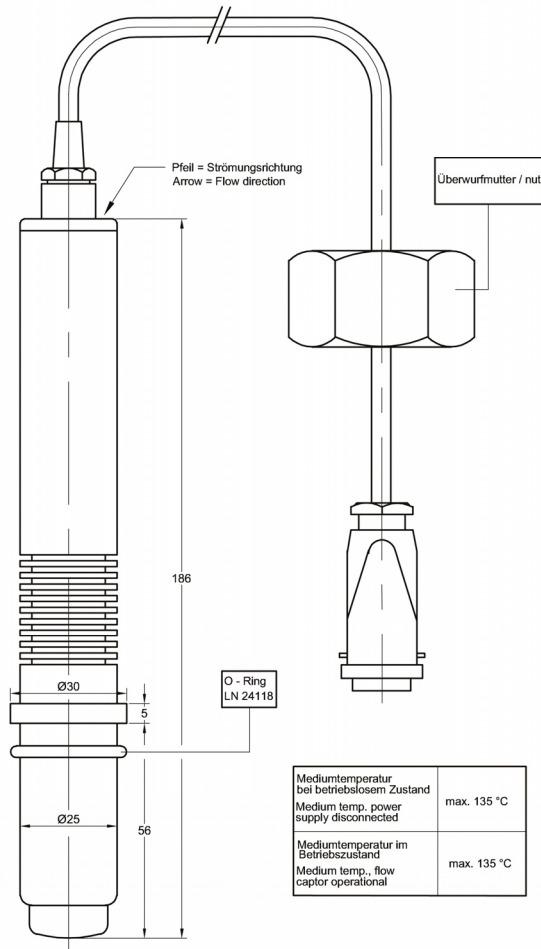
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Strömungsmesser für flüssige Medien

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