

Inline flow - captor



Type 4311.30

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 4311.30 / *
* Pipe diameter as customer specification
- 1.2 Screwdriver for adjustment

2.0 Installation Instructions

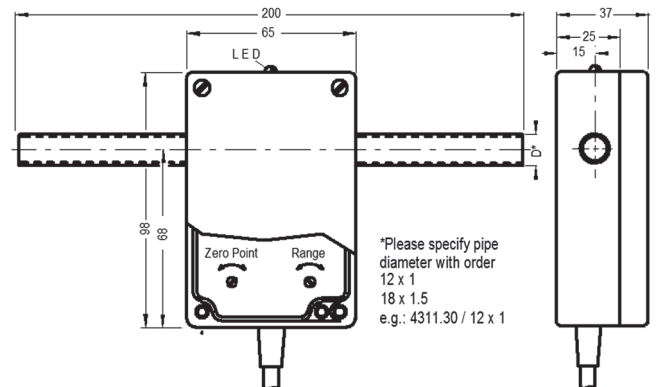
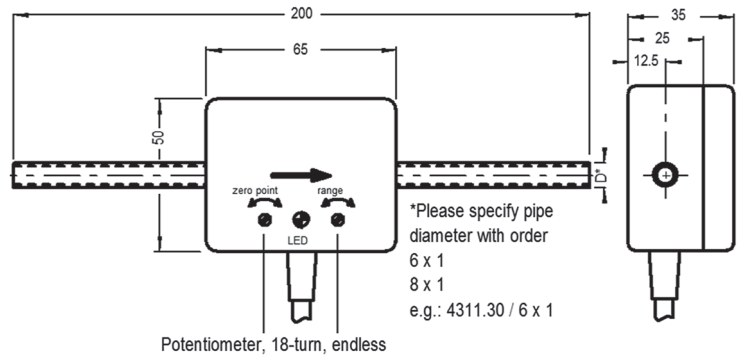
- 2.1 Depending on the pipe system a variety of connectors can be used e.g. with screw fittings (e.g. Ermeto) or with hose clamps etc.
NOTE: The inline pipe element must not be subjected to any kind of force, twisting etc., or to high temperatures e.g. in welding processes.
Torsion: ≤ 10 Nm up to ≤ 40 °C
- 2.2 Installation site: Preferably in vertical pipes with ascending flow or in horizontal pipes.

- 2.3 **Initial Operation:** Connect flow-captor to 24 VDC as in connection diagram and wait approx. 2 min. before adjusting. Adjustments are possible from 0 - 20 cm/s up to 0 -100 cm/s (related to water). Zero point potentiometer is factory set. Range potentiometer is adjusted at the max. measuring range ≈ 100 cm/s.

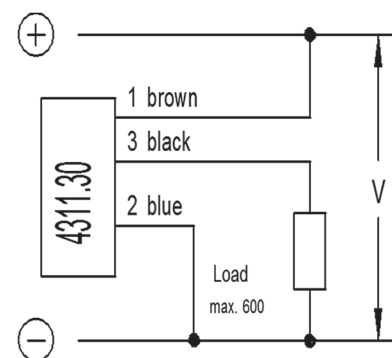
3.0 Adjustment Procedure:

- 3.1 Zero point adjustment in stationary medium (roughly).
Adjust zero point potentiometer after 2 min. so, that $I_{out} \approx 4$ mA, i.e.
at $I_{out} > 4$ mA turn pot. to the left,
at $I_{out} < 4$ mA turn pot. to the right.
- 3.2 Adjustment of measuring range in max. flow rate of medium:
Accelerate flow of the medium to a point, where the flow-captor should give an output signal of 20 mA and wait approx. 2 min. Turn range pot. until $I_{out} = 20$ mA (to the left I_a will be greater, to the right I_a will be smaller).
LED „ON“: flow rate is within the measuring range
LED „OFF“: flow rate exceeds measuring range.
- 3.3 Fine adjustment of zero point: After waiting at least 2 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.

Dimensions (mm)



Connection Diagram



4-20 mA current output

weber

Sensors GmbH Strohdreich 32
Sensors Ltd. 66 Eastbourne Road, Southport
Sensors LLC. 4462 Bretton Court, Building 1, Suite 7

DE-25377 Kollmar, Germany Tel.: +49 (0)4128 - 591 · Fax: - 593
Merseyside PR8 4DU, UK Tel.: +44 (1704) - 551684 · Fax: - 551297
Acworth, Georgia 30101, USA Tel.: +1 (770) 592 - 6630 · Fax: - 592 6640

www.captor.de
info@captor.de
sales@captor.co.uk
sales@captor.com