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

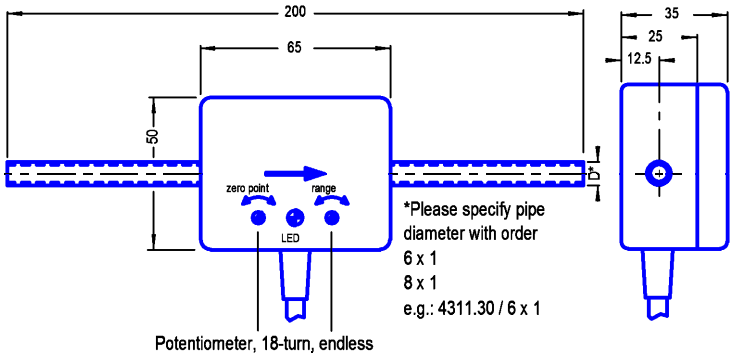
2.0 Installation Instructions

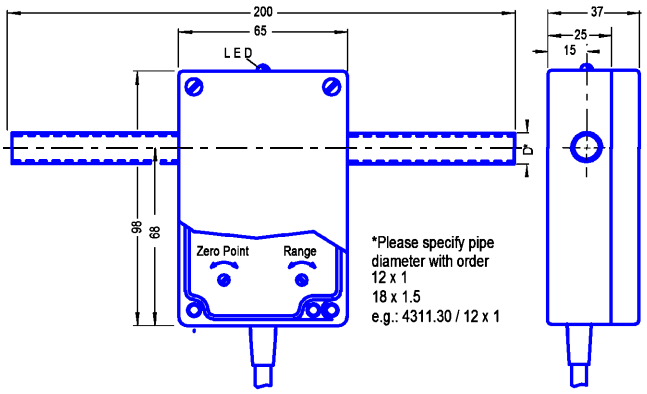
2.1 Depending on the pipe system a variety of connectors can be used e.g. with screw fittings (e.g. Ermeto) or with hose clamps etc.
NOTE: The inline pipe element must not be subjected to any kind of force, twisting etc., or to high temperatures e.g. in welding processes.
Torsion: ≤ 10 Nm up to ≤ 40 °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 V DC 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 ³ 100 cm/s.

Dimensions (mm)





3.0 Adjustment Procedure:

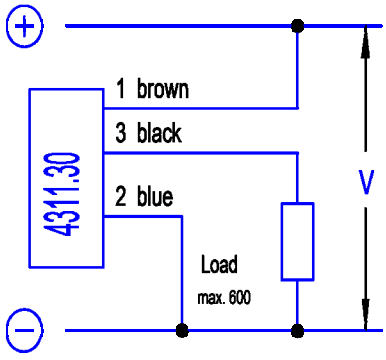
3.1 Zero point adjustment in stationary medium (roughly).
Adjust zero point potentiometer after 2 min. so, that Ia ≈ 4 mA, i.e.
at Ia > 4 mA turn pot. to the left,
at Ia < 4 mA turn pot. to the right.

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 Ia = 20 mA (to the left Ia will be greater, to the right Ia 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 Ia 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.

Connection Diagram



4-20 mA current output

weber
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