Inline vent-captor Type 3302.30

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 Inline vent-captor Typ 3302.30/--/28*
*Pipe diameter as to customer's specifications.

1.2 Screwdriver for adjustment

2.0 Installation instruction

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...
CAUTION: The inline pipe element must not be subjected to any kind of force, as twisting etc...or to high temperature e.g. in welding processes. Torsion: not allowed

2.2 **Installation site:** Preferably in horizontal pipes or vertical pipes with ascending flow.

2.3 Initial Operation: Connect vent-captor to 24 VDC as in connection diagram and wait approx. 5 min. before adjusting. Adjustment is possible in 4 different ranges: 0 - 5 m/s / 0 - 10 m/s / 0 - 20 m/s and 0 - 30 m/s. Settings are possible of 20 % within every measuring range, e.g. related to air with normal pressure. The zero point pot. is pre-adjusted. The range pot. is in position of max. value, e.g. set measuring range.

3.0 Initial state:

3.1 The zero point potentiometer P2 is adjusted ex works to 4 mA

3.2 The range potentiometer is adjusted to the extreme clockwise position

3.3 Where ex works adjustment of measuring range has been requested, both potentiometers are sealed with silicone. Adjustment is carried out under manufacturer's test rig conditions. Under different installation conditions on site, deviations in output signal may be possible.
Attention: 18-turn potentiometers are eployed with no mechanical end stop.

4.0 Adjustment procedure

4.1 Zero point adjustment in stationary medium (roughly)
Adjust the potentiometer P2 after 5 minutes in that way that Iout = 4 mA.
e. g. if Iout > 4 mA turn pot. P2 slowly to the **left.**
if Iout < 4 mA turn pot. P2 to the **right.**

4.2 Adjustment of measuring range at the max. flow rate, which must correspond to 20 mA output. After 3 minutes at max. flow rate turn pot. P1 until Iout = 20 mA; e. g. if Iout = > 20 mA turn pot. P1 slowly to the **right.**
e. g. if Ia = < 20 mA turn pot. P1 slowly to the **left.**

weber
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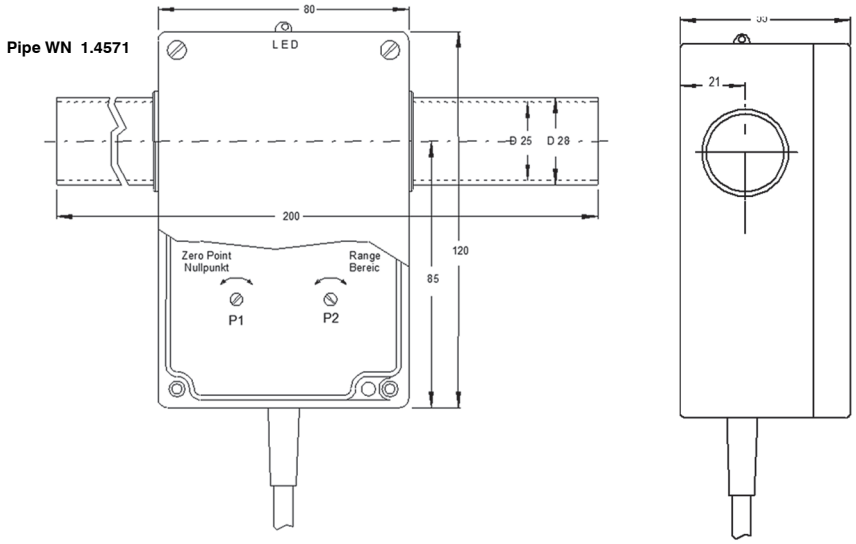
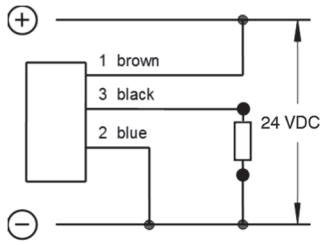
4.3 Check zero point and range adjustments as previous mentioned in point 4.1 and 4.2.
Correct any discrepancies if necessary.

4.4 LED indicates well operation within the measuring range up to 20 mA.
LED gets OFF when flow rate exceeds the adjusted range
(Iout = > 20 mA)

Dimensions in mm



Connection Diagram



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