

vent-captor Typ 3202.30 (3205.30)



Installation and Adjustment Instructions

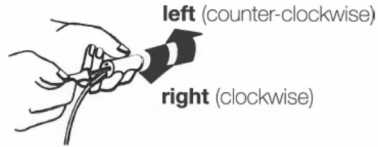
Please read carefully! No liability can be accepted for damage caused by improper use of the captor!

4.0 Adjustment Procedure

4.1 Zero point adjustment in stationary medium: Adjust potentiometer P2 after 5 minutes so that $I_a = 4 \text{ mA}$.

i.e. if $I_a > 4 \text{ mA}$ turn pot. P2 slowly to the left

if $I_a < 4 \text{ mA}$ turn pot. P2 slowly to the right.

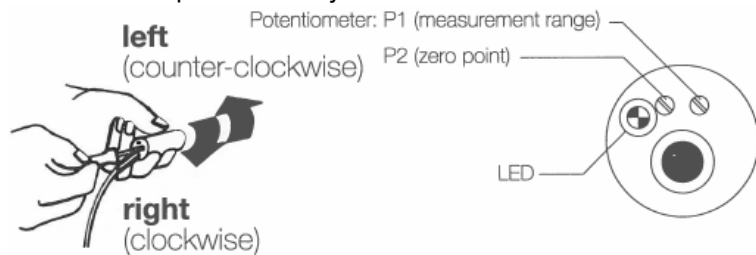


4.2 Adjustment of measurement range at the max. flow rate

which is to correspond to 20 mA output: After 3 minutes at max. flow-rate turn pot. P1 until $I_a = 20 \text{ mA}$.

i.e. if $I_a > 20 \text{ mA}$ turn pot. P1 slowly to the right

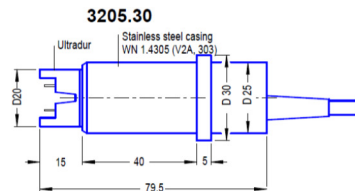
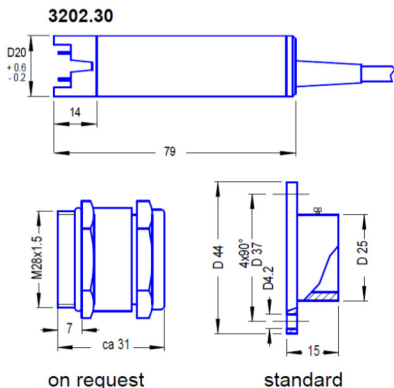
if: $I_a < 20 \text{ mA}$ turn pot. P1 slowly to the left.



4.3 Check Zero Point and Range

Check zero and range adjustments as in points 4.1 and 4.2 and correct any discrepancies as necessary.

4.4 LED indicates operation within measurement range, and switches off when flow speed is out of the adjusted range ($I_a > 20 \text{ mA}$).



Type 3205.30
Technical data as 3202.30.
Max. pressure 10 bar (143 PSI).
Installation with union nut G1A.
SW 37 mm, DIN 259, ISO 228
Mass approx. 200 g without nut

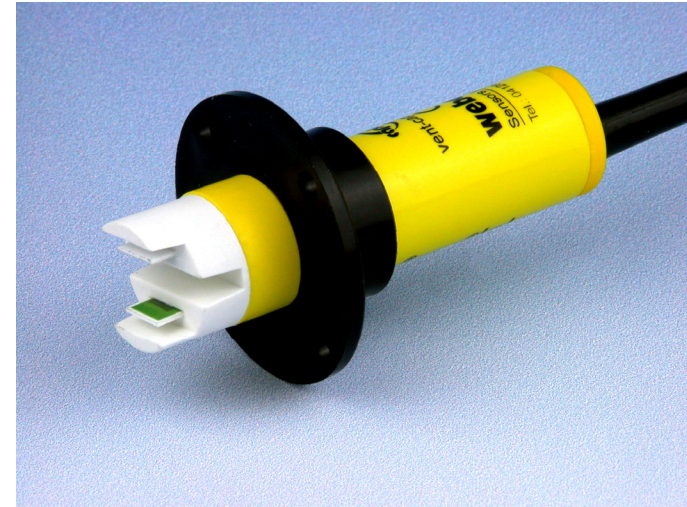


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1.0 vent-captor Type Number

- 1.1 Type 3202.30: type number printed on housing
- 1.2 Type 3205.30: type number indicated on adhesive label
- 1.3 Measurement range: stamped on cable (eg. 0 - 20 m/s)
- 1.4 Identification of special version: stamped on cable (eg. S100)

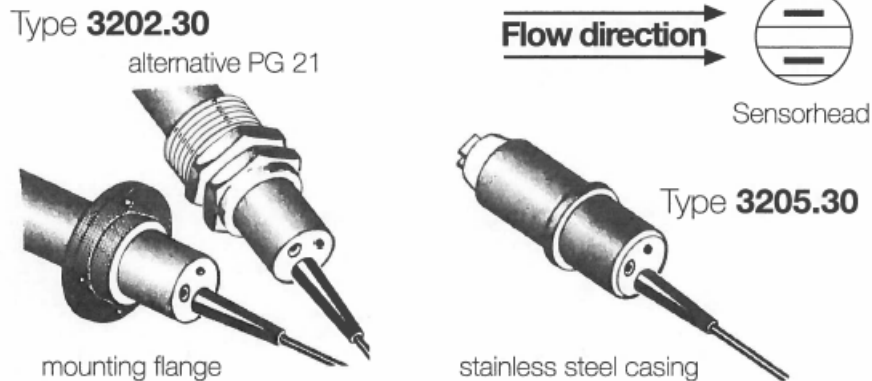
2.0 Installation Instructions

2.1 Installation Depth

Dependent upon duct diameter, min 15 mm,

2.2 Orientation

Position the ceramic sensor elements so that they are parallel to the direction of flow, as illustrated below.



2.3 Installation Site

Optimal installation is with a straight free run of 5-7 x ID diameter upstream and 3-5 x ID diameter downstream of the vent-captor.

2.4 Installation of Type 3202.30 with Mounting Flange

Drill 21 mm hole and 4 screw holes in wall of air-duct. Secure the mounting flange with the 4 screws provided. Push vent-captor into duct and secure by tightening the locking screw on the side of the flange. Sealing hp on flange provides secure tiffing. Alternatively a PC 21 connector may be used (see "items delivered") Metal PC 21 tiffings are modified by the manufacturer. ModiFication is indicated by a '1 on the fiffing's hexagon nut.

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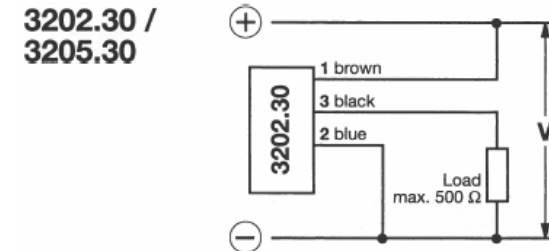
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2.5 Installation of Type 3205.30

Fit the O-ring over the front of the vent-captor and push back to the flange. Insert the vent-captor into the previously mounted 1"-flifing and secure with the union nut provided. The fitting (available as separate accessory) is designed to ensure the optimal insertion depth of the vent-captor.

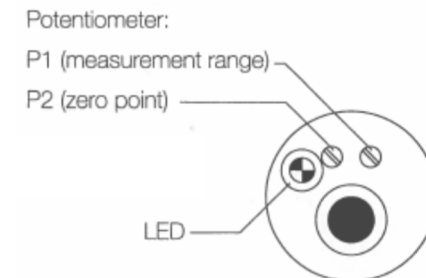
2.6 Powering Up

Connect the vent-captor to 24 V DC as in connection diagram and wait approx. 5 minutes before commencing adjustment.



3.0 Initial State

- 3.1 The zero point potentiometer P2 s adjusted ex works to 4 mA.
 - 3.2 The range potentiometer P1 is adjusted to the extreme clockwise position.
 - 3.3 Where ex works adjustment of measurement range has been requested, both potentiometers are seated 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.
- N.B.** 18-turn potentiometers are employed with no mechanical end point.



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