

Installation and setting instructions vent-captor 3302.1x/xx



Please read carefully: No liability for damages caused by improper handling of the captor.

1.0 Items delivered

- 1.1 Inline vent-captor Typ 3302.1x/xx*
*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.

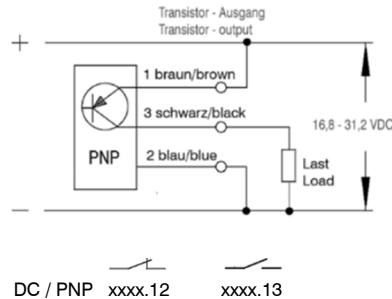
Torsion: not allowed

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

2.3 **Initial Operation:** Connect vent-captor to 24V DC as in connection diagram and wait approx. 5 min. before adjusting. Adjustment is possible in 3 different ranges: 0-5 m/s / 0-10 m/s / 0-20 m/s

3. Electrical connection

Make sure that the vent-captors are connected to power as shown in the connection diagrams below.



4.0 Switching characteristic

4.1 Switching delay

The switching delay of the vent-captor is defined as the time between exceeding or falling below the adjusted set-point and the switching of the sensor. The switching delay is not constant. So the shorter the delay the greater the deviation of the actual flow speed from the adjusted switching point. The delay is between 2 seconds and more than 30 seconds.

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5.0 LED-function

Sensors with NO contact function: types .13	Sensors with NC contact function: types .12
LED "red" – no flow = switching state OFF	LED "green" – no flow = switching state ON
LED "green" – flow = switching state ON	LED "red" – flow = switching state OFF

6.0 Switch point adjustment

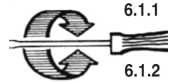
On delivery the vent-captors are adjusted to 3 m/s (upper set-point/rising flow)

6.1 Change of switching point

Only 5 minutes after switching ON the operating voltage a stable function of sensor is achieved.

6.1.1 Lower sensitivity = higher switching point

6.1.2 Higher sensitivity = lower switching point



6.2 With zero flow turn the potentiometer to the left until the LED lights "green"

(output switched through). Then turn potentiometer clockwise until LED lights up "red" (most sensitive setting). Turn on the potentiometer a maximum of 18 times = lowest sensitivity.

Note: Potentiometer for max. 18 revolutions without mechanical end stop

7.0 Monitoring the lower flow switch-point

7.1 Adjust air flow rate to desired signal output

7.2 After 5 minutes turn the potentiometer slowly clockwise until LED lights "red"

7.3 Restore normal flow and wait 3 minutes. When the LED shines "green", the adjustment is OK.

7.4 If the LED remains "red" the speed difference is too low.

In this case repeat steps 6.1 to 6.4

8.0 Monitoring the upper flow switch-point

8.1 Adjust air flow rate to desired signal output

8.2 Turn potentiometer clockwise until LED lights "red".

8.3 After 5 minutes turn potentiometer slowly to the left until LED lights "green".

8.4 Restore normal flow and wait 3 minutes. When the LED shines "red", the adjustment is OK.

8.5 If the LED remains "green" the speed difference is too low.

In this case repeat steps 7.1 to 7.5

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