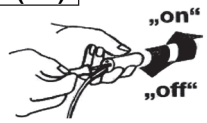
Installation and Adjustment Instructions

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

The following instructions refer to units with normally open output (.51)!



5.2 With zero air flow turn adjustment potentimeter until LED **„ on"**. (This position sets switch-point to zero flow). **Slowly** turn adjustment potentiometer until LED**„off"** = most sensitive setting. Turn on the potentiometer a maximum of 18 times = lowest sensitivity.
Note: Potentiometer for max. 18 revolutions without mechanical end stop

6. Monitoring the flow failure

6.1 With no air flow turn adjustment potentiometer after 5 minutes until "on" (LED on).

6.2 Turn on normal air flow, wait 3 minutes and adjust potentiometer (counting the turns) until LED **„off".**

6.3 Turn back half the number of turns at 6.2 = optimum setting, tr - tf

7. Monitoring the lower flow switch-point

7.1 Adjust the air flow rate at which a signal is required.

7.2 After 5 minutes slowly turn the potentiometer until LED **„off".**

7.3 Increase the flow to normal rate and wait 3 minutes.
If LED is „on“, the setting is correct.
If LED stays „off“, the flow rate difference is too small.
In this case turn the potentiometer slowly until LED „on“.

8. Monitoring the upper flow switch-point

8.1 Adjust the air flow rate at which a signal is required.

8.2 Turn potentiometer clock-wise until LED **„off"**

8.3 After 5 minutes slowly turn the potentiometer until LED **„on".**

8.4 Decrease the flow to normal rate and wait 3 minutes.
If LED is **„off“**, the setting is correct.
If LED stays **„on“**, the flow rate difference is too small.
In this case turn the potentiometer slowly until LED **„off".**

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vent-captor 3201.5x (3204.5x)

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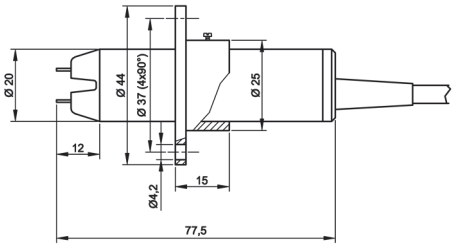
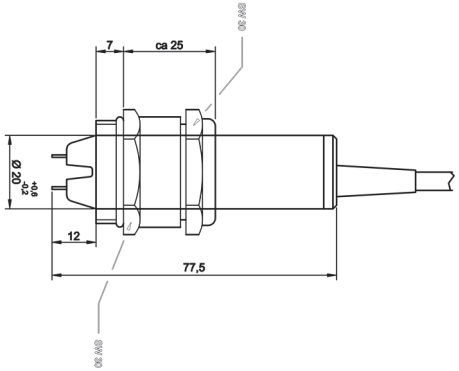
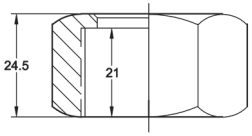


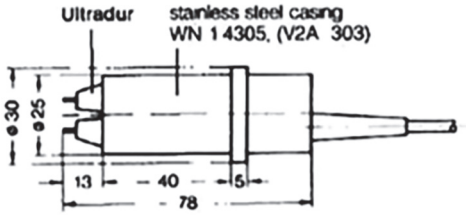
With flange (atmospheric pressure)



with PG21 (up to max. 1 bar)



with union nut in stainless steel casing (from 1 bar to max. 10 bar) 3205.0x



Type 3204.5x
Technical data as 3201.5x
Max. pressure 10 bar
Installation with union nut
G1A, SW 37 mm, DIN 259, ISO 228
Mass approx. 200g without nut

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Technical data subject to alteration! REV. AJ / 26.04.23

Installation and Adjustment Instructions

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1. Installation

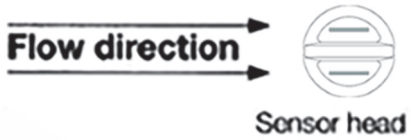
With supplied mounting flange (alternative PG 21) or union nut (type 3204.5x)

1.1 Installation depth

Depending on the duct cross-section, but at least 15 mm. Metal PG 21 fittings are modified by the manufacturer. Modification is indicated by a ,,1" on the fitting's hexagon nut.

1.2 Installation position

Position the probes lengthwise parallel to flow.

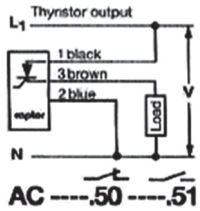


2. Electrical connection

Ensure that the vent-captor is connected in accordance with the appropriate electrical connection diagram.

Attention: vent-captors are not short circuit protected!

3201.5x / 3204.5x



Output current: 5 - 200 mA

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vent-captor 3201.5x (3204.5x)

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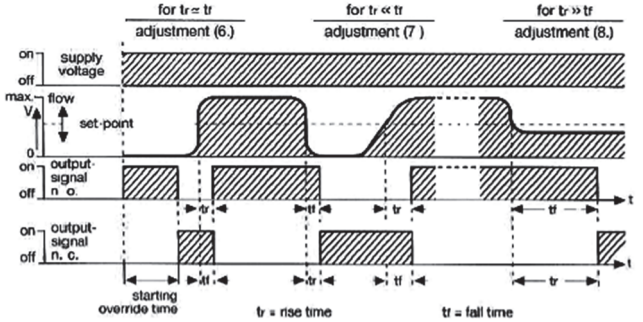
3. Switching characteristics

3.1 Starting override time

The thermal time delay applies to a cold unit, at factory set-point approx. 60 sec.

3.2 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. Depending upon adjustment it varies from 3 s to more than 100 s.



4. LED-Function

Units with nomally open switching function type **.51**
LED **„off"** - no flow = output **„ off"**
LED **„on"** - flow = output **„on"**
Units with nomally closed switching function type **.50**
LED **„on"** - no flow = output **„on"**
LED **„off"** - flow = output **„off"**

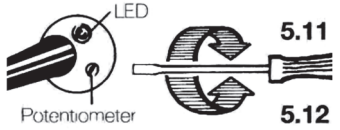
5. Switching-point adjustment

For general applications vent-captors are factory set to a switching flow rate of less than 4 m/s and are therefore ready to use without any further adjustment.

5.1 Changing of switching-point:
A stable operating condition is only reached 5 minutes after the operating voltage is switched on.

5.11 Lower sensitivity = higher switching-point

5.12 Higher sensitivity = lower switching-point



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