

# vent-captor Type 3201.xx (3204.xx)

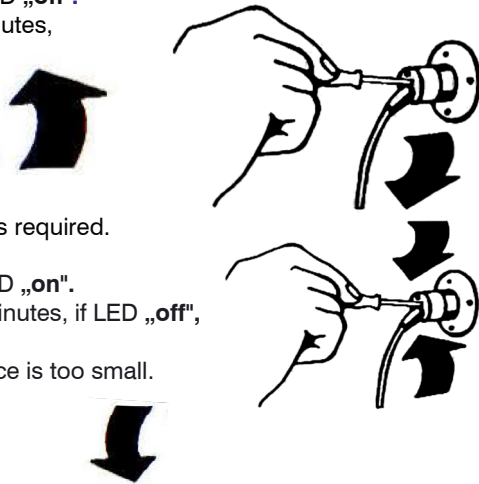


## Installation and Adjustment Instructions

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

### 7.0 Monitoring lower flow limit

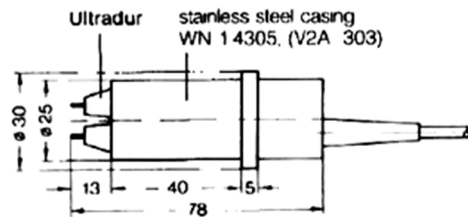
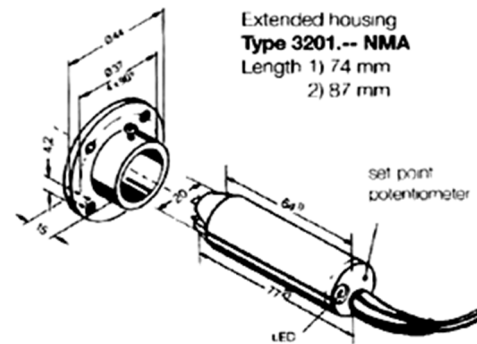
- 7.1 Reduce flow to the min. rate at which a signal is required.
- 7.2 After 5 minutes slowly turn pot. until LED „off“.
- 7.3 Increase flow to normal rate, wait 3 minutes, if LED „on“, setting is correct.
- 7.4 If LED stays „off“, the flow rate difference is too small. In this case turn slowly until LED „on“.



### 8.0 Monitoring upper flow limit

- 8.1 Increase flow to rate at which a signal is required.
- 8.2 Turn pot. until LED „off“
- 8.3 Wait 5 minutes turn pot. slowly until LED „on“.
- 8.4 Decrease flow to normal rate. Wait 3 minutes, if LED „off“, setting is correct.
- 8.5 If LED stays „on“, the flow rate difference is too small. In this case turn pot. until LED „off“.

### Dimensions in mm



**Type 3204.--**  
Technical Data as 3201 ..  
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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### 1.0 Installation

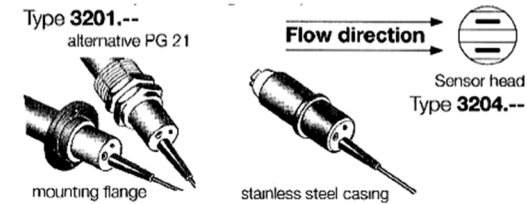
With supplied mounting flange (alt. PG 21) or union nut (Type 3204.xx)

### 1.1 Installation depth

Dependent on duct diameter, min .15 mm. Metal PG 21 fittings are modified by the manufacturer. Modification is indicated by a „1“ on the fitting's hexagon nut.

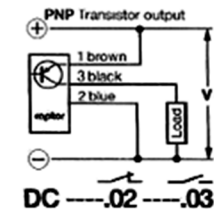
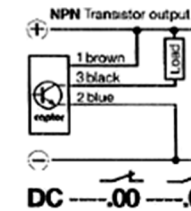
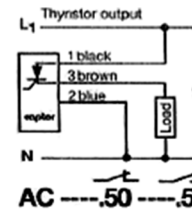
### 1.2 Flow direction

Position the probes lengthwise parallel to flow.



### 2.0 Electrical connection

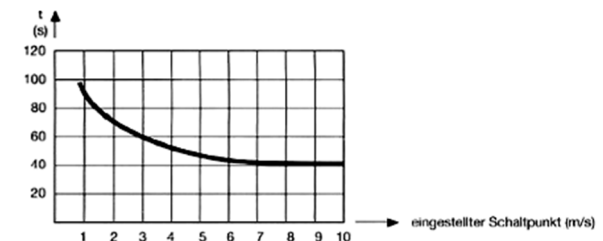
Ensure that the vent-captor is connected in accordance with the appropriate electrical connection diagram. **Attention:** vent-captors are not short circuit protected!  
3201 -- / 3204.--



### 3.0 Switching characteristics

#### 3.1 Starting override time

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



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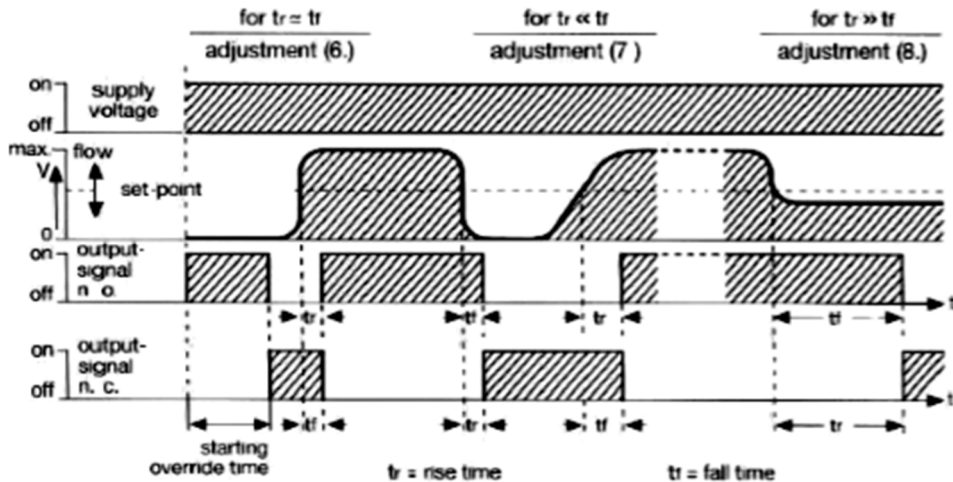
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**3.2 Switching delay** The time delay of the vent-captor is defined by the rate of change of flow speed relative to the set-point. This time delay is not constant, the faster the change, the shorter the time delay. Depending upon adjustment it varies from 3 s to more than 100 s.



### 4.0 LED-Function

Units with normally open switching function type .51/.01/.03

LED „off“ - no flow = output „off“

LED „on“ - flow = output „on“

Units with normally closed switching function type .50/.00/.02

LED „on“ - no flow = output „on“

LED „off“ - flow = output „off“

### 5.0 Set-point adjustment

For general applications vent-captors are factory set at an air flow rate of 3 m/s and are therefore ready to use without further adjustment.

#### 5.1 Changing set-point:

Stable operating condition reached 5 minutes after electrical connection.

**5.11** Decrease sensitivity (clockwise) = upper switch-point

**5.12** Increase sensitivity (counter-clockwise) = lower switch-point

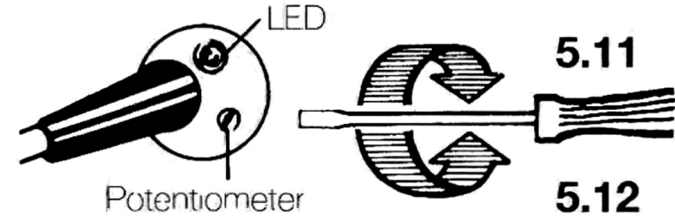
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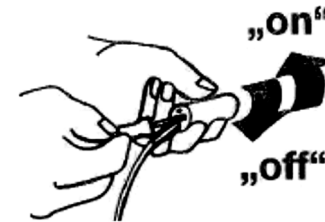
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The following instructions refer to units with normally open output!

**5.2** With no air flow turn adjustment pot. until LED „on“. (This position sets switch-point to zero flow). Slowly turn adjustment pot. until LED „off“ = most sensitive setting. Further adjustment, max. 18 turns results in least sensitivity.

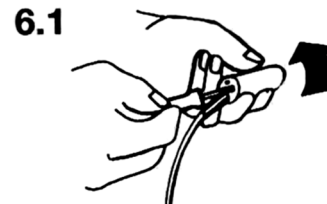


Attention:

18-turn potentiometer without mechanical end point

### 6.0 Monitoring air flow failure

**6.1** After 5 minutes with no air flow, turn pot. until LED „on“.



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

**6.3** Turn back half the number of turns at 6.2 = optimum setting,  $t_r \approx t_f$

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