

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

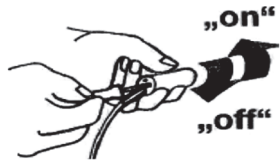


Installation and Adjustment Instructions

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

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.



Attention:

6.0 Monitoring air flow failure



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, tr ≈ ff

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“.



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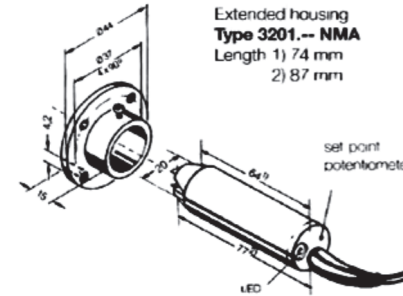
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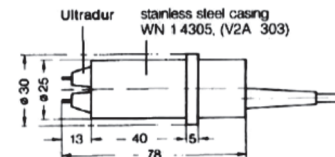
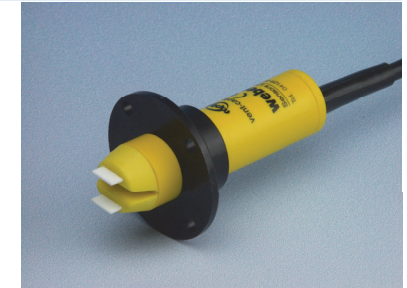
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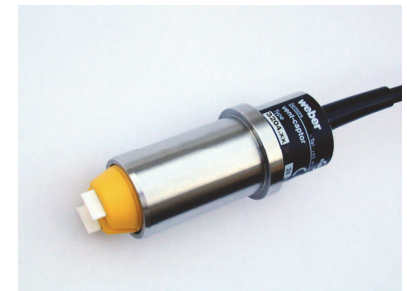
Dimensions in mm



Extended housing
Type 3201.-- NMA
 Length 1) 74 mm
 2) 87 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



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.

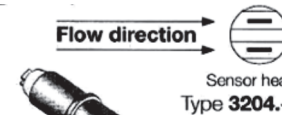
1.2 Flow direction

Position the probes lengthwise parallel to flow.

Type 3201.--
 alternative PG 21



mounting flange



stainless steel casing

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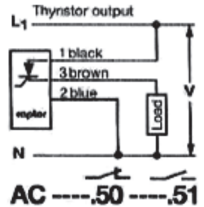
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2.0 Electrical connection

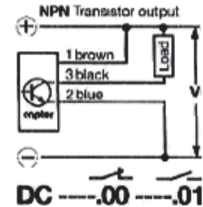
Ensure that the vent-captor is connected in accordance with the appropriate electrical connection diagram.

Attention: vent-captors are not short circuit protected!

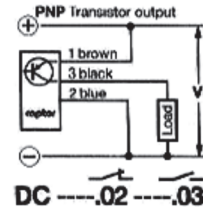
3201 .-- / 3204.--



Output current: 5 - 200 mA



max. 500 mA

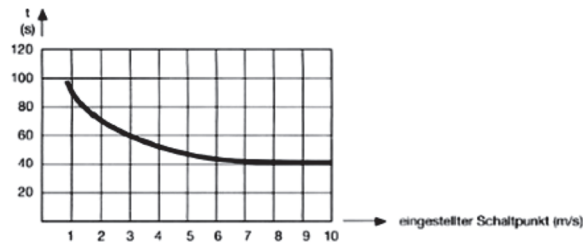


max. 500 mA

3.0 Switching characteristics

3.1 Starting override time

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



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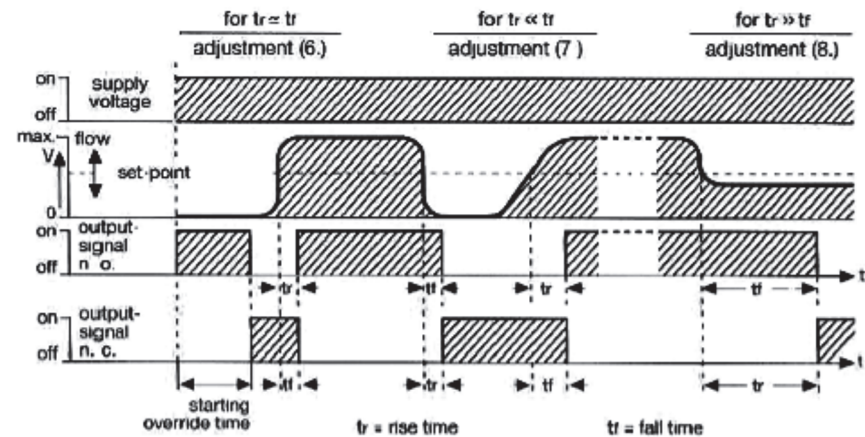
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3.2 Switching delay The time delay of the vent-captor is defined by the rate of change of flow speed relative to the set-point. This time delay is not constant, the faster the change, the shorter the time delay. Depending upon adjustment it varies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

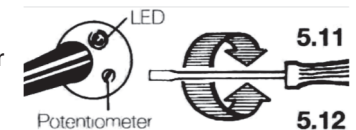
For general applications vent-captors are factory set at an air flow rate of less than 4 m/s and are therefore ready to use without any further adjustment.

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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