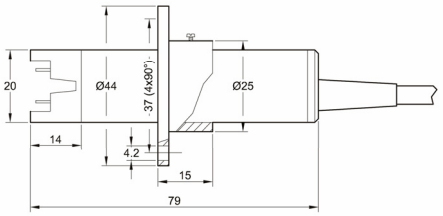
Installation and setting instructions
vent-captor 3202.0x (3205.0x)

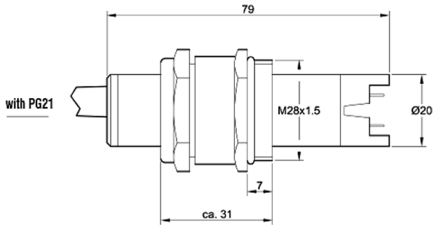
Please read carefully: No liability for damages caused by improper handling of the captor.

With flange (atmospheric pressure)

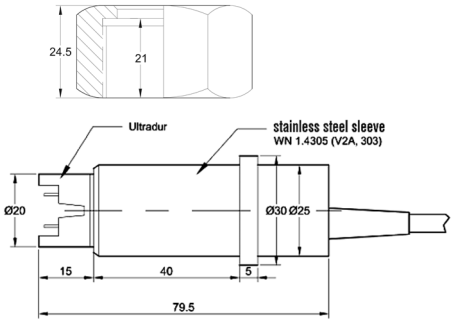
Type 3202.0x with flange



with PG21 (up to max. 1 bar)



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



Type 3205.0x: Techn. Data as 3202.0x
max. pressure 10 bar, installation with union nut G 1“ A, SW 37 mm, DIN 259, ISO 228
mass approx. 200 g without nut

Installation and setting instructions
vent-captor 3202.0x (3205.0x)

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

1. Assembly

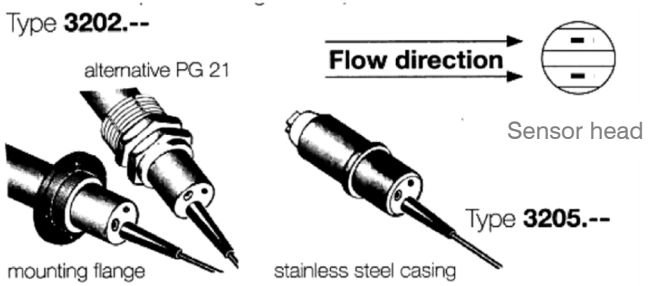
The installation is carried out by means of the enclosed flange or PG21 for type 3202.0x or with a union nut to fix the metal version type 320**5**.0x

1.1 Installation depth

Depending on the pipe cross section but at least 15 mm. Metal PG21 fittings are modified by the manufacturer. Modification is indicated by 1” on the union nut.

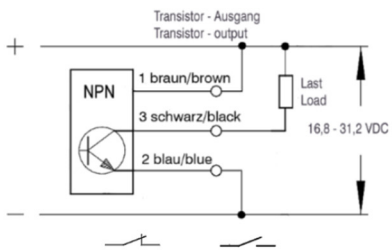
1.2 Mounting orientation

Position the captor in such a way that the sensors are longitudinal parallel to the flow.

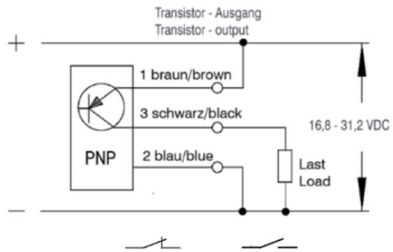


2. Electrical connection

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



3202.0x / 3205.0x



DC / NPN xxxx.00 xxxx.01 DC / PNP xxxx.02 xxxx.03

3. Switching characteristics

3.1 Starting override time

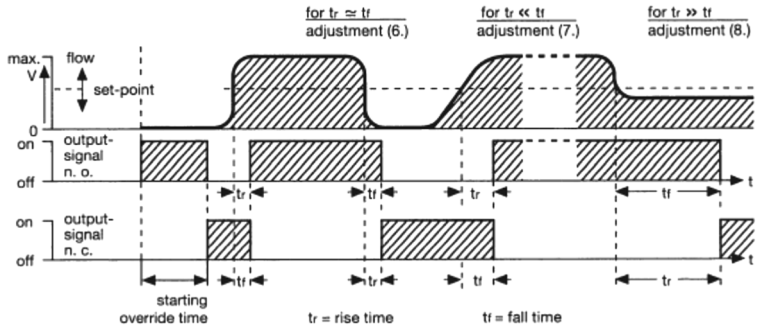
The thermal starting override time is only effective when the device is in a “cold” state. The flow signal only takes effect after approx. 25 seconds.

weber
Sensors GmbH · Strohdeich 32 · D-25377 Kollmar · Tel.: +49 (0)4128-591 · Fax: -593 · www.captor.de · eMail: info@captor.de
Technical data subject to alteration! Irrtum und technische Änderungen vorbehalten! · Rev. AA / 16.11.17

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

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. The delay is between 2 seconds and more than 30 seconds.



4. LED-function

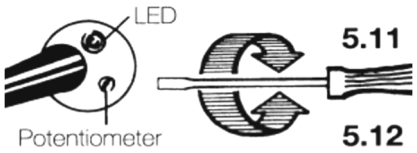
Sensors with NO contact function: types **.01** / **.03**
LED "**red**" – no flow = switching state **OFF**
LED "**green**" – flow = switching state **ON**
Sensors with NC contact function: types **.00** / **.02**
LED "**green**" – no flow = switching state **ON**
LED "**red**" – flow = switching state **OFF**

5. Switch point adjustment

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

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

5.1.1 Lower sensitivity = higher switching point
5.1.2 Higher sensitivity = lower switching point

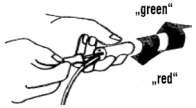


Installation and setting instructions
vent-captor 3202.0x (3205.0x)

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

The following instructions refer to units with normally open output!

5.2 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.



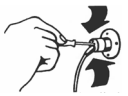
Note: Potentiometer for max. 18 revolutions without mechanical end stop

6. Monitoring the lower flow switch-point

6.1 Adjust air flow rate to desired signal output
6.2 After 5 minutes turn the potentiometer slowly clockwise until LED lights "**red**"
6.3 Restore normal flow and wait 3 minutes. When the LED shines "**green**", the adjustment is OK.
6.4 If the LED remains "**red**" the speed difference is too low.
In this case repeat steps 6.1 to 6.4

7. Monitoring the upper flow switch-point

7.1 Adjust air flow rate to desired signal output
7.2 Turn potentiometer clockwise until LED lights "**red**".
7.3 After 5 minutes turn potentiometer slowly to the left until LED lights "**green**".
7.4 Restore normal flow and wait 3 minutes. When the LED shines "**red**", the adjustment is OK.
7.5 If the LED remains "**green**" the speed difference is too low.
In this case repeat steps 7.1 to 7.5



weber
Sensors GmbH · Strohdeich 32 · D-25377 Kollmar · Tel.: +49 (0)4128-591 · Fax: -593 · www.captor.de · eMail: info@captor.de
Technical data subject to alteration! Irrtum und technische Änderungen vorbehalten! · Rev. AA / 16.11.17