

vent-captor Type 3202.30

The vent-captor type 3202.30 is an air flow meter for industrial applications. The small, self-contained vent-captor is completely epoxy resin encapsulated and operates with high accuracy and repeatability even under changing working conditions. The vent-captor can be integrated into measurement and control systems without additional component parts.

The newly developed operating principle for the measurement of air flow, based on the calorimetric principle, provides a wide measurement range over a large quantity. The measurement range is adjustable from 1 to 30 m/s. To achieve the best signal resolution 4 different units are available.

The response time is very short, even at low flow, such that this analog vent-captor is ideally suited for quick control loops.

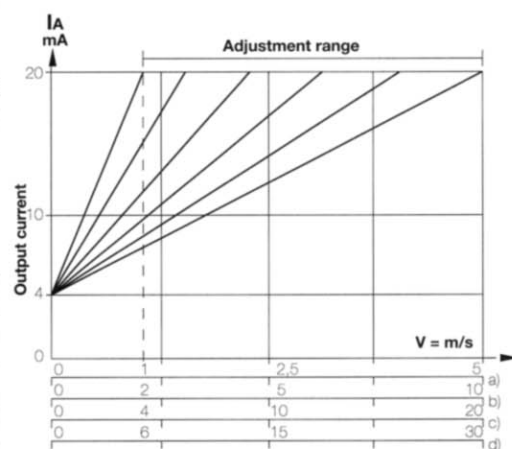
The maintenance-free air flow meter is simple to install with the supplied mounting flange. For applications under pressure conditions vent-captor type 3205.30 with stainless steel casing is available.

Self-contained air flow meter, simple to install. Sensor for all measurement and control applications, no moving parts, linear current output 4-20 mA. 4 measurement ranges up to 5 m/s, 10 m/s, 20 m/s, 30 m/s, continually adjustable

Sensing Data

Medium	gaseous
Measurement range	continually adjustable up to 5 m/s, 10 m/s, 20 m/s, 30 m/s, see graph
Adjustment characteristic	logarithmic to flow speed
Linearity deviation	< 5 % best fitting slope
Repeatability tolerance	< 3 %
Temperature drift	< 0,3 % / K

All data related to air



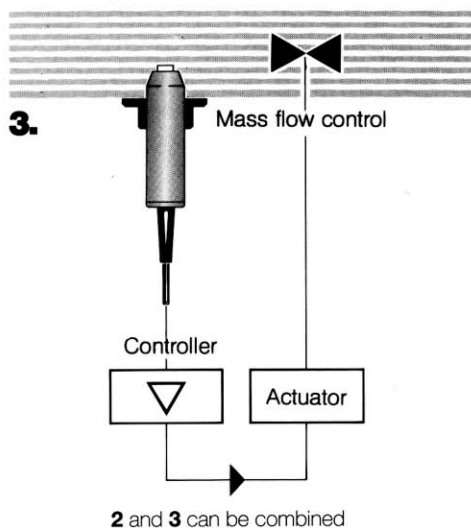
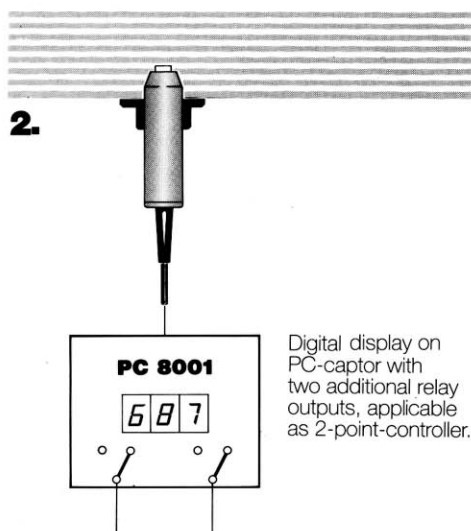
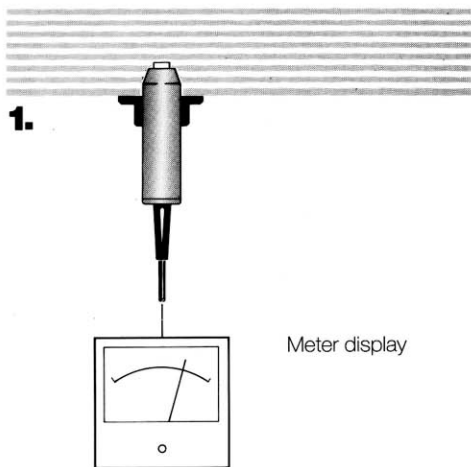
Parameter = Potentiometer-setting
 a) Type 3202.30/5
 b) Type 3202.30/10
 c) Type 3202.30/20
 d) Type 3202.30/30

Output current related to flow speed at various range potentiometer settings.

vent-captor

Type 3202.30 / -, 3205.30 / -
Compact air flow meter

Application examples:



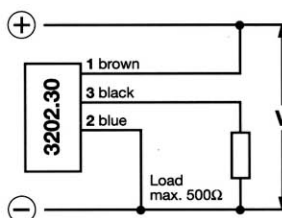
Electrical Data:

Voltage supply	24 V DC \pm 30 %
Power consumption	approx. 800 mW – 1.3 W (max. flow speed)
Output current	4 to 20 mA
Resistive load	0 – 500 Ohm

Measurement range adjustment:
The measurement range of the air flow meter is adjustable with a small screwdriver turning a potentiometer. A green LED signalizes operation within the adjusted measurement range. If flow exceeds the measurement range LED turns off.

Connection Diagram

4-20 mA current output

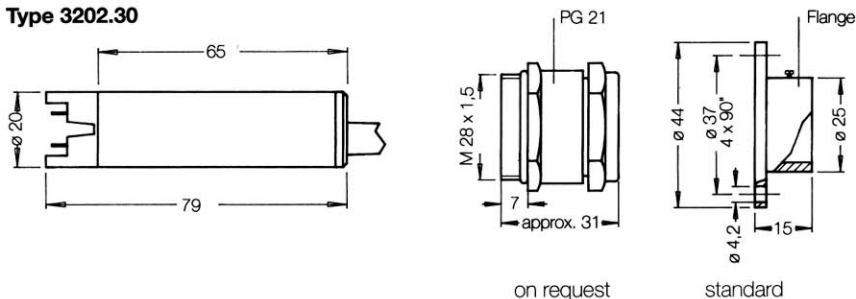


Mechanical Data:

Material	Sensor probe	Housing
	Ceramic with overglaze	Ultradur (PBTP)
Medium temperature	-20 °C to +70 °C (-4 °F to +160 °F)	
Ambient temperature	-20 °C to +70 °C (-4 °F to +160 °F)	
Electrical connection	2 m moulded oilflex cable / 3 x 0.5 mm ²	
Protection standard	IP 64	
Mass	130 g	

Dimensions in mm

Type 3202.30



Type 3205.30

Technical data as 3202.30
max. pressure 10 bar (143 PSI)
mounting with union nut G1A
SW 37 mm DIN 259, ISO 228
mass approx. 200 g without nut

