



## vent-captor Type 3202.--

The vent-captor type 3202.-- is a solid-state flow-monitor for gaseous media in industrial applications.

Being totally encapsulated in epoxy resin with no moving parts, this small, compact unit operates with high precision and high repeatability in the most harsh industrial environments.

The construction and design of the vent-captor ensures a long, maintenance-free life, even in the most inaccessible of places, and allow trouble-free installation by means of the mounting flange supplied.

The vent-captor operates fully electronically according to a recently developed principle for the measuring of air flow based on the calorimetric principle, and shows a rugged and reliable superiority when compared with other sensing technologies.

Compact flow-monitor for gaseous media, no moving parts, long life irrespective of switching frequency, simple installation with mounting flange, switching point adjustable between 0,5 m/s and 20 m/s.

### Sensing Data

Medium	gaseous
Switching range	adjustable from 0,5 m/s to 20 m/s*
Adjustment characteristic	logarithmic to flow speed
Repeatability tolerance of set-point	< 3 %
Hysteresis	< 20 %
Switching delay	approx. 2 s with change of flow more than 2 m/s below or above set-point
Temperature drift	< 0.3 % / K

\*All media other than air must be specified for calibration

# vent-captor

Type 3202.0 –, 3205.0 –  
Air flow-monitor

## Typical Application Examples:

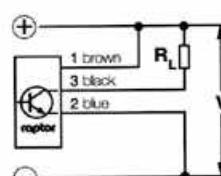
vent-captor air flow-monitors can be applied wherever air operates as an industrial medium, e. g. air conditioning, ventilation, air filter monitoring, extraction fans, blowers, damper regulators and controlling air flow rates in energy conservation systems. The vent-captor is also ideal for monitoring air flow in thyristor cabinets, motor/generators and shipping containers.

## Electrical Data

Voltage supply	24 V DC +30 % / -32.5%
Switching current	max. 200 mA
Power consumption	approx. 800 mW - 1,3 W (at max. flow)
Starting override time (Set-point dependency)	approx. 30 s at 0,5 m/s to approx. 5 s at 20 m/s *
Electrical output at no flow	3202.00 NPN current bearing (n.c.) 3202.02 PNP current bearing (n.c.) 3202.01 NPN absence of current (n.o.) 3202.03 PNP absence of current (n.o.)
Display	LED, at flow condition: ON

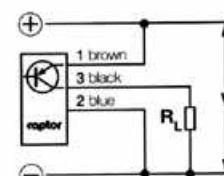
## Connection Diagrams:

### NPN-transistor output



DC   
3202.00 3202.01

### PNP-transistor output



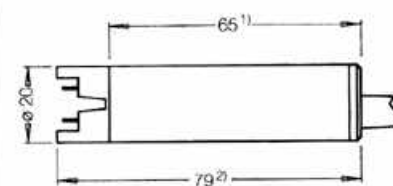
DC   
3202.02 3202.03

## 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 <sup>2</sup>	
Protection standard	IP 64	
Mass	130 g	

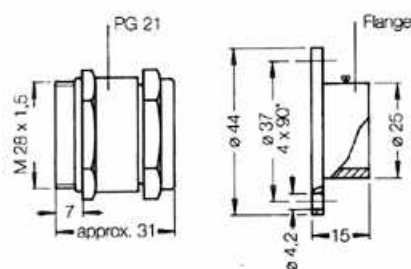
## Dimensions in mm

### Type 3202.--



Extended Housing  
Type 3202.-- NMA  
Length: 1) 75 mm  
2) 89 mm

### Mounting parts

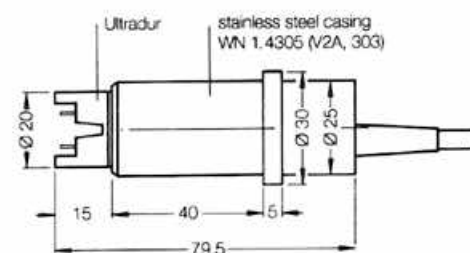


on request

standard

### Type 3205.--

Technical data as 3202.--  
Max. pressure 10 bar  
Installation with union nut  
G1A, SW 37 mm, DIN 259, ISO 228  
Mass approx. 200 g without nut



# weber

Sensors GmbH · Strohdreich 32 · D-25377 Kollmar · Tel.: +49 4128-591 · Fax: -593

Sensors Ltd · 4 Union Street · Southport · Merseyside PR9 0QE · UK · Tel.: +44 1704-548706 · Fax: -533956

Sensors Inc · 2230 Towne Lake Pkwy., Bldg. 900, Suite 200 · Woodstock, GA 30189 · Tel.: +1 (770) 592-6630 · Fax: -6640