

Air Flow Switch for DC Voltage Supply (Type 3202.-/3205.-)



Benefits and Features

- Compact flow-monitor for gaseous media.
- No moving parts.
- Long life irrespective of switching frequency.
- Simple installation with mounting flange, pipe adapter optional.
- Switching point adjustable between 0,5 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

General Description

The vent-captor type 3202.- is a solid-state flow-monitor for air or gaseous media in a wide variety of industrial applications. Being totally encapsulated in epoxy resin with no moving parts, this small, compact unit operates with high precision and high repeatability in harsh industrial environments. The construction and design of the vent-captor ensures a long, maintenance-free life

Typical Application Examples:

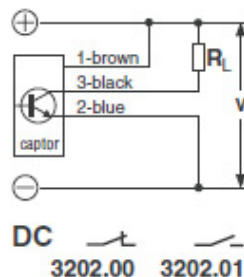
vent-captor air flow-monitors are used to monitor air flow in a wide variety of industrial applications for air or gasous medium e. g. air conditioning, ventilation, air filter monitoring, extraction fans, blowers, damper regulators and controlling air flow rates in energy conservation systems. The vent-captor is also ideal for monitoring air flow in thyristor cabinets, motor/generators and shipping containers.

Electrical Data

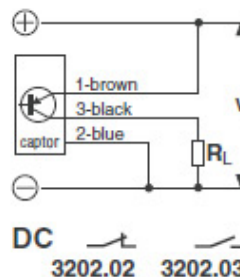
Voltage supply	24 V DC \pm 30%	
Switching current	max. 200 mA	
Power consumption	approx. 800 mW - 1.3 W (at max. flow)	
Starting override time (Set-point dependency)	approx. 30 s at 0.5 m/s to approx. 5 s at 20 m/s *	
Electrical output	3202 00 NPN (N.C. with no flow) 3202 01 NPN (N.O. with no flow)	3202 02 PNP (N.C. with no flow) 3202.03 PNP (N.O. with no flow)
Display	LED, at flow condition ON	

Connection Diagrams:

NPN-transistor output



PNP-transistor output



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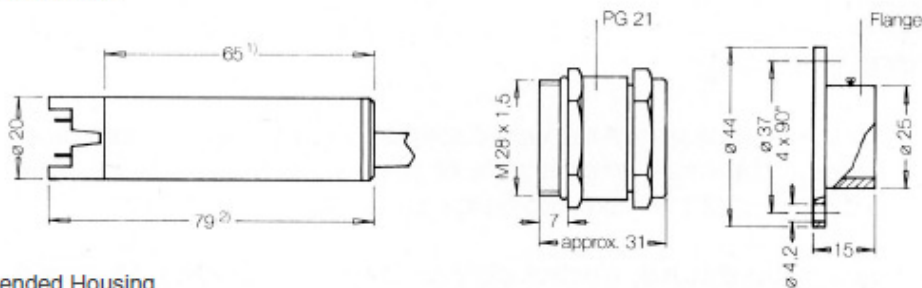
Mechanical Data

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	
Protection standard	IP 64 (Equivalent to NEMA 4)	
Mass	130 g	

⊕ Dimensions

Dimensions in mm

Type 3202.--



Extended Housing

Type 3202.-- NMA

Length 1) 75 mm
2) 89 mm

Type 3205.-- (stainless steel housing)

Technical Data as 3202.-- except:

Max. pressure 10 bar

Installation with union nut

G1A SW 37 mm, DIN 259, ISO 228

Mass approx. 280 g without nut

