SCHMIDT[®] Flow Sensor SS 20.501 SS 20.502



Applications

• Air conditioning

- Climate control
- Bio systems
- Process control
- Clean-room technology
- Pollution measurements
- Car industry

Examples of use

- VAV systems
- Ventilator control
- Filter monitoring
- Exhaust-air control
- Laminar flow control
- Airspeed measurement outside as well as in wind tunnels
- Pneumatic conveyor
- Air volume measurements
- Pneumatic supply systems

SS 20.501

The standard version is pressure proof up to 10 bar and available in different tube lengths (L). Together with the mounting flange suitable for L = 160 mm or longer), a simple mounting and precise sensor position is possible. This is in addition to the normal thread mounting supplied as standard.

SS 20.502

Corrosion and pressure proof version with protective coating for applications in air containing aggressive components. The protective coating consists of a twoFlow sensor with integrated transducer for flow measurement of air and gases. No moving parts. Optimized sensor head resulting in widely independent direction characteristics. Active temperature compensation for the overall specified temperature range. Analog output signal independent of

Product description



Measuring method

pressure and temperature.

The principle of the flow measurement is based on the heat transfer (calorimetric) method. A heated thermistor is kept at a constant higher temperature relative to the medium (CTD-mode). The heat dissipation into the medium increases with increasing flow. The heating current thus determines the flow velocity.

component polyurethane resin on polyacrylate/polyurethane basis. This coating is generally resistant against organic dissolvers, acids and caustic solutions as well as its vapours. The flow sensor SS 20.502 is corrosion-protected against the following vapours in air: hydrochloric acid, sodium hydroxide, perchlorethylene, acetone, ethyl acetate, ethyl alcohol, xylene, gasoline, engine oil (50° C), cutting oil (50° C), cleaning oil, ammonia, acetic acid, sulphuric acid. The suitability has to be tested individually.





Technical data overleaf

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Flow characteristics





Mounting flange



Order no. 300227

Mounting instructions



Туре	Order No.	х	Mounting length L (mm)	Y	Measuring range w _N (m/s)	z	Output	Α	Connection
SS 20.501 Pressure proof up to 10 bar	300410-XYZA	1	90	1	0 20	1	0 10 V	1	Pigtail
SS 20.502 Pressure proof up to 10 bar. Measuring tip coated	300428-XYZA	2 3 4 5	160 360 500 3000 (flexible)	2 3 4 5	0 10 0 2.5 0 35 0 1	2 3	0 20 mA 4 20 mA	2	Plug-in