

TP-ESF/35-2 Air Velocity Sensor

TITAN Products air velocity sensor is used for control, monitoring and regulation of airflow speed in ventilation systems by registering airflow speed according to a thermal principle based on the fact that the cooling action of air increases with airspeed.

The processor based electronics ensure that the output signal is linear and that corrections are made in case of temperature changes. The transducer has a separate 0-10V DC output signal for measurement of the air temperature with a range of 0-50°C.

Specification

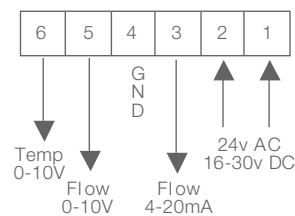
Airflow Speed:	0-8 m/s, 0-16 m/s (selectable ranges)
Standard current signal:	4-20mA (RL < 500 ohms) 0-10V (max. 5mA)
Air Temperature:	-10 to + 60°C
Ambient Temperature:	-20 to + 50°C
AC/DC Voltage Supply:	24v ± 10% (120mA)
Accuracy:	± 5% of output value
Min. measure accuracy:	± 0.4 m/sec (valid in temp. range 0-50°C and velocity range 0.5m/sec -16m/sec)
Rise Time:	20 sec
Time Constant:	5 sec
Depth of insertion in duct:	50-185 mm
Temperature output:	0-50 °C = 0-10V (max 5mA)
Dimensions Housing:	80mm high, 80mm wide, 55mm deep
Probe:	250mm long, 12mm dia, 50-185mm (depth of insertion in duct)
Product Code:	TPRS/EE80-2CT3

Maintenance

A dirty sensor will reduce the measurement accuracy. If the transducer is used in unclean air, the sensor head should be cleaned at a suitable interval.

It is recommended to use a shielded cable to the transducer as this will improve the immunity of the transducer against noise when it is used in industrial areas. The screen should be terminated at the supply point but not terminated at the transducer.

Connections



Dimensions

