

EE57 Series

Miniature Air Velocity Transmitter

alterations according to customer specifications possible

The EE57 is a low-cost transmitter for monitoring air velocity in HVAC and OEM applications.

The use of a high-quality E+E thin film sensor element based on the hot film anemometer principle ensures optimal precision and maximum sensitivity, even at the lowest air velocities.

The innovative design makes E+E velocity sensor elements less sensitive to dust and other pollution than conventional hot wire anemometers. This is reflected in the excellent reproducibility and proven long-term stability of the measuring results.

The electronics integrated in the probe tube provide a non-linear analogue signal of 0-5V for the velocity range 0...10m/s (0...2000ft/min). Other measuring ranges on request.



Typical Applications

**Monitoring incoming air in pellet furnaces
 HVAC technology**

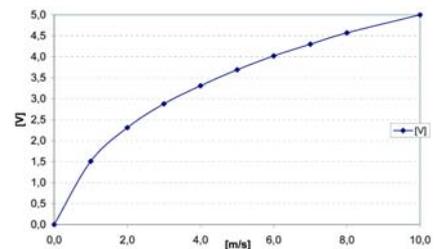
Features

**excellent price-performance-ratio
 compact housing
 high insensitivity against pollution
 low angular dependence**

Technical Data

Measuring values

Working range	0.5...10m/s (100...2000ft/min)
Output signal 0...10m/s (0...2000ft/min)	0-5V [max. 1mA], non linear - see diagram
Accuracy at 20°C (68°F), 45% RH and 1013 hPa	± (0.2m/s + 3% of measuring value)
Response time at 10m/s τ_{90}	typ. 2s



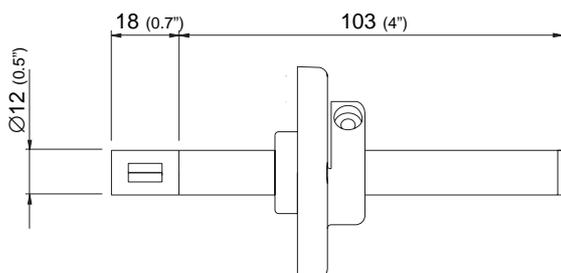
General

Power supply	12 - 16V DC
Current consumption	max. 30mA
Electromagnetic compatibility	component operates on a standalone basis but only intended for use in conjunction with other equipment
Connection	0.5m (1.6ft) cable PVC 3 x 0.25mm ² with cable-end sleeve
Temperature ranges	working temperature range: -10...60°C (14...140°F) storage temperature range: -30...70°C (-22...158°F)
Type	probe in PC - tube / protection class IP20

m [m/s]	Uout [V]
0.0	0.00
1.0	1.51
2.0	2.31
3.0	2.88
4.0	3.31
5.0	3.69
6.0	4.02
7.0	4.30
8.0	4.57
10.0	5.00

Dimensions in mm

Connection Diagram



cable length: 450mm (1.5ft)

conductor "brown" → +12V DC
 conductor "white" → GND
 conductor "green" → output signal

Ordering Guide

Model: EE57 (incl. mounting flange)

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