

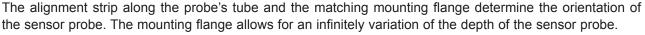
EE576

Miniature Air Velocity Transmitter for Measurement of Lowest Velocity

The EE576 is a compact air velocity transmitter designed for measurement of lowest velocity. Equipped with a newly developed sensor head and utilizing the proven E+E hot-film element, already tested a million times in the automotive industry, these transmitters are less sensitive to dust and dirt than conventional hot-wire elements. This is reflected in the excellent reproducibility and proven long-term stability of the measuring results.

The factory calibration with a special wind tunnel for lowest velocity ensures optimal precision and maximum sensitivity.

The EE576 can be mounted fast and easily.



The electronics integrated in the probe tube provide a linear analogue signal of 0-5 V or 0-10 V for the velocity range 0...1 m/s (0...200 ft/min) or 0...2 m/s (0...400 ft/min).



Typical Applications

laminar flow control filter monitoring exhaust systems glove boxes excellent price/performance ratio compact housing easy and fast mounting

Features

Technical Data _

Measuring values							
Working range ¹⁾	01 m/s (0200 ft/min) 02 m/s (0400 ft/min)						
Output signal ¹⁾	0-5 V (max. 1 mA)						
01 m/s / 02m/s	0-10 V (max. 1 mA)						
Accuracy ²⁾ at 20 °C / 68 °F / 45 % RH and 1013 hPa	0.21 m/s (40200 ft/min):	0.22 m/s (40400 ft/min):					
<u> </u>	±(0.05 m/s +2 % of m.v.)	±(0.08 m/s +4 % of m.v.)					
Response time at 1 m/s (200 ft/min) t ₉₀	typ. 4 sec.						
General							
Supply voltage ¹⁾ (Class III) 🕪	10 - 19 V DC or 19 - 29 V DC						
Current consumption	max. 70 mA at 2 m/s (400 ft/min)						
Working range	humidity:	1095 % RH (non-condensing)					
	working temperature:	-2060 °C (-4140 °F)					
	storage temperature:	-3060 °C (-22140 °F)					
Connection	0.5 m cable, PVC 3x0.25 mm² with cable end sleeves						
Electromagnetic compatibility	EN61326-1	CF					
	EN61326-2-3						
Housing / Protection class	sing / Protection class polycarbonate / IP20 (sensor); IP40 (housing)						

¹⁾ refer to ordering guide

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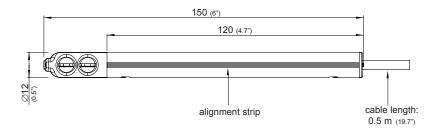
²⁾ The accuracy statement includes the uncertainty of the factory calibration with an enhancement factor k=2 (2-times standard deviation). The accuracy was calculated in accordance with EA-4/02 and with regard to GUM (Guide to the Expression of Uncertainty in Measurement).

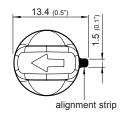


Dimensions (mm)

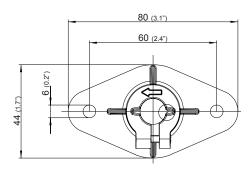
Probe:

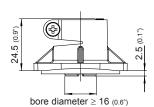
Front view sensor head:





Flange (included in the scope of supply):





Cable Assignment

 $\begin{array}{ccc} \text{white} & \rightarrow & \text{V+} \\ \text{brown} & \rightarrow & \text{GND} \end{array}$

green \rightarrow output signal

Ordering Guide _

MODEL		OUTPUT		WORKING RANGE		SUPPLY		CABLE LENGTH	
air velocity	(V)	0 - 5 V	(2)	01 m/s (0200 ft/min)	(A)	10 - 19 V DC	(1)	0,5 m	(no code)
		0 - 10 V ¹⁾	(3)	02 m/s (0400 ft/min)	(B)	19 - 29 V DC	(2)	2 m	(K200)
EE576-									
LL070-									

¹⁾ with supply 19-29 V DC only

Order Example _

Scope of supply

EE576-V2B1K200

Model: air velocity
Output: 0 - 5 V
Working range: 0...2 m/s
Supply: 10 - 19 V DC

Cable length: 2 m

- EE576 air velocity transmitter according to ordering guide
- Mounting flange
- Manual

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