

EE576

Probe for Very Low Air Velocity

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The compact EE576 probe is optimized for low air velocity measurement in applications like laminar flow control or filter monitoring. It operates on the hot-film anemometer principle which stands for high accuracy and fast response time.

Reliability

The the flow sensing element manufactured in state-of-the-art E+E thin-film technology is highly insensitive to contamination and offers excellent long-term stability.

Easy installation

The alignment strip on the probe facilitates the correct positioning in the air flow. The mounting flange within the scope of supply enables precise setting of the immersion depth.

Output

The measured data up to 1 m/s (200 ft/min) or 2m/s (400 ft/min) is available on the 0-5V or 0-10V output.



laminar flow control filter monitoring



outstanding accuracy and long term stability excellent price/performance ratio easy and fast mounting

Technical Data _

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Working range	01 m/s (0200 ft/min)		
	02 m/s (0400 ft/min)		
Accuracy ¹⁾	0.21 m/s (40200 ft/min):	±(0.05 m/s +2 % of mv)	
at 20 °C / 68 °F / 45 % RH and 1013 hPa	0.22 m/s (40400 ft/min):	±(0.08 m/s +4 % of mv)	mv=measured value
Response time t ₉₀	typ. 4 sec. at 1 m/s (200 ft/min))	
Output signal	0-5 V 0-10 V I∟ < 1 mA		
	0-10 V		I∟ = Load current

General

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Supply voltage (Class III) 🕪	10 - 19 V DC or 19 - 29 V DC
Current consumption	max. 70 mA at 2 m/s (400 ft/min)
Connection	0.5 m cable, PVC 3x0.25 mm² with cable end sleeves
Electromagnetic compatibility	EN61326-1
	EN61326-2-3
Probe material / Protection class	polycarbonate / IP20 (sensing head); IP40 (probe)
Humidity working and storage range	1095 % RH (non-condensing)
Temperature working range	-2060 °C (-4140 °F)
storage range	-3060 °C (-22140 °F)

¹⁾ The accuracy statement includes the uncertainty of the factory calibration with an enhancement factor k=2 (2-times standard deviation).

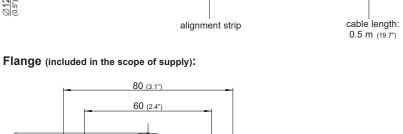
The accuracy was calculated in accordance with EA-4/02 and with regard to GUM (Guide to the Expression of Uncertainty in Measurement).

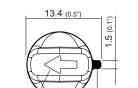
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Dimensions in mm (inch)

Probe:

150 (6") 120 (4.7") alignment strip $0.5\ m\ (19.7")$

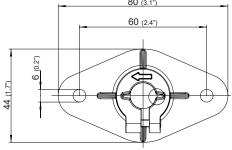


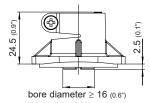


alignment strip

Front sensing head:

The arrow indicates the air flow direction during factory adjustment.





Cable Assignment _

white brown \rightarrow GND

green \rightarrow output signal

Ordering Guide _____

		EE576-
Output	0 - 5 V	A2
	0 - 10 V ¹⁾	A3
Air velocity range	01 m/s (0200 ft/min)	HV21
	02 m/s (0400 ft/min)	HV23
Supply	10 - 19 V DC	V5
	19 - 29 V DC	V6
Cable langth	0.5 m (1.64 ft)	KL50
Cable length	2 m (6.56 ft)	KL200

¹⁾ with 19 - 29 V DC supply only

Order Example _

EE576-A2HV23V5KL200

0 - 5 V Output: Air velocity range: 0...2 m/s10 - 19 V DC Supply:

Cable length: 2 m

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