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Datasheet EE576

Probe for Very Low Air Velocity



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QUOTATION

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EE576

Probe for Very Low Air Velocity

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 accurate setting of the immersion depth.

Output

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



EE576 air velocity probe with flange

Features

Sensing head

- Protection rating IP20
- Polycarbonate (PC)
- Operates on the hot-film anemometer principle
- E+E thin-film technology
- Excellent long-term stability

Measurement performance

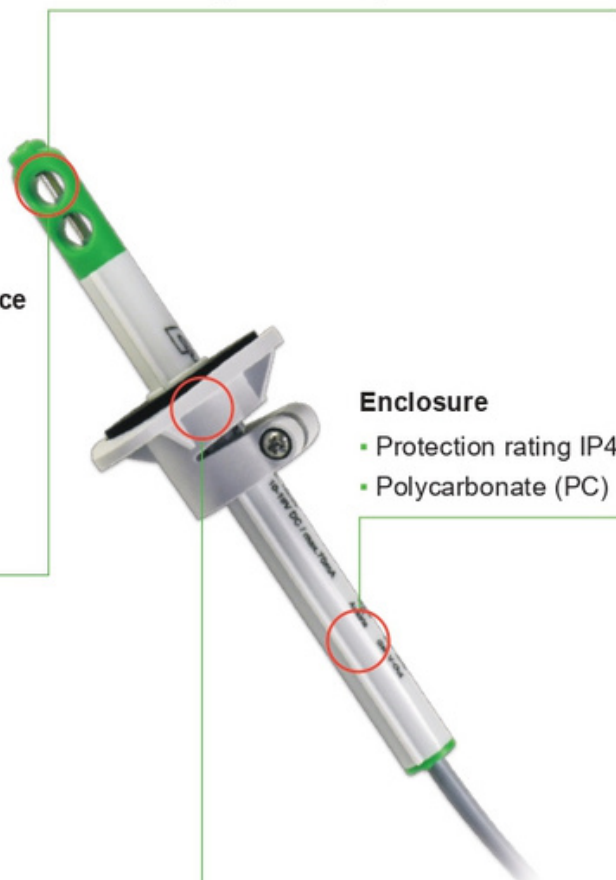
- High accuracy
- Measuring range:
 - 0...1 m/s
 - 0...2 m/s
- Fast response time:
 - 4 s @ 1 m/s

Enclosure

- Protection rating IP40
- Polycarbonate (PC)

Mounting flange

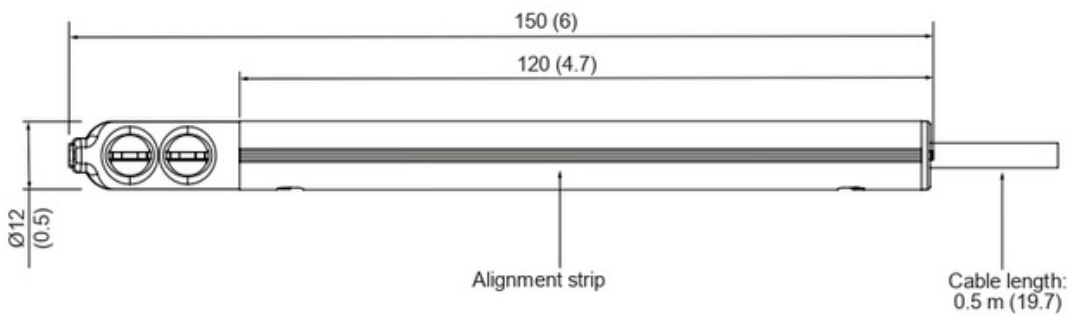
- Easy and quick mounting
- Accurate setting of the immersion depth



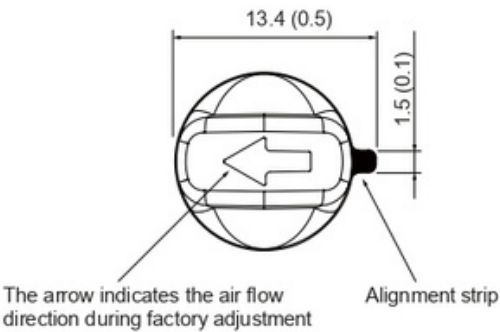
Dimensions

Values in mm (inch)

Probe
Polycarbonate (PC)

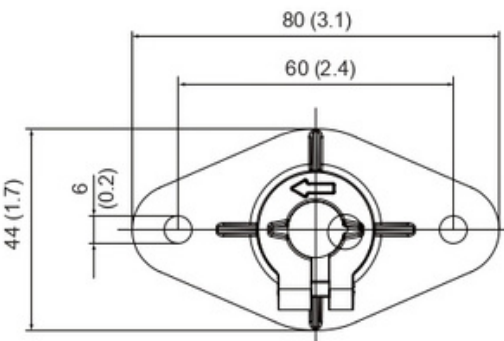


Front sensing head



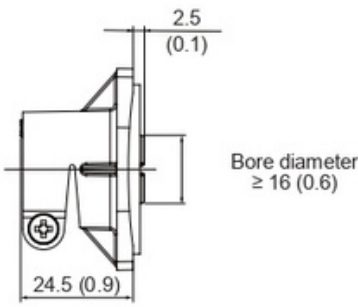
Mounting flange

Included in the scope of supply



Mounting flange

Side view



Technical Data

Measurands

Air Velocity (v)	
Measuring range	0...1 m/s (0...200 ft/min) 0...2 m/s (0...400 ft/min)
Accuracy ¹⁾ @ 20 °C (68 °F), 45 %rF und 1013 hPa (14.7 psi) 0.2...1 m/s (40...200 ft/min) 0.2...2 m/s (40...400 ft/min)	±(0.05 m/s +2 % of mv) ±(0.08 m/s +4 % of mv) mv = measured value
Response time t ₉₀ , typ.	4 s bei 1 m/s (200 ft/min)

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).

Output

Analogue	
Air velocity (v)	0 - 5 V 0 - 10 V 0 < I_L < 1 mA I_L = load current

General

Power supply class III  USA & Canada: Class 2 supply necessary	10 - 19 V DC or 19 - 29 V DC		
Current consumption, max. @ 2 m/s (400 ft/min)	70 mA		
Humidity range Operation and Storage	10...95 %RH, non-condensing		
Temperature range Operation Storage	-20...+60 °C (-4...+140 °F) -30...+60 °C (-22...+140 °F)		
Probe cable	Polyvinylchloride (PVC), 3 x 0.25 mm ² with wire ferrules		
Probe material	Polycarbonate (PC)		
Protection rating Probe head Probe	IP20 IP40		
Electromagnetic compatibility	EN 61326-1 FCC Part15 Class B	EN 61326-2-3 ICES-003 Class B	Industrial environment
Conformity	 		

Ordering Guide

Feature	Description	Code
Hardware Configuration		EE576-
	Output	0 - 5 V
		A2
	0 - 10 V (with 19 - 29 V DC supply only)	
	Measuring range	A3
		HV21
	Power supply	0...1 m/s (0...200 ft/min)
		HV23
	Connection cable length	0...2 m/s (0...400 ft/min)
		V5
		V6
		KL50
		KL200

Order Example

EE576-A2HV23V5KL200

Feature	Code	Description
Output	A2	0 - 5 V
Measuring range	HV23	0...2 m/s (0...400 ft/min)
Power supply	V5	10 - 19 V DC
Connection cable length	KL200	2 m (6.56 ft)

Company Headquarters &
Production Site

E+E Elektronik Ges.m.b.H.
Langwiesen 7
4209 Engerwitzdorf | Austria
T +43 7235 605-0
F +43 7235 605-8
info@epluse.com
www.epluse.com

Subsidiaries

E+E Sensor Technology (Shanghai) Co., Ltd.
T +86 21 6117 6129
info@epluse.cn

E+E Elektronik France SARL
T +33 4 74 72 35 82
info.fr@epluse.com

E+E Elektronik Deutschland GmbH
T +49 6171 69411-0
info.de@epluse.com

E+E Elektronik India Private Limited
T +91 990 440 5400
info.in@epluse.com

E+E Elektronik Italia S.R.L.
T +39 02 2707 86 36
info.it@epluse.com

E+E Korea Co., Ltd.
T +82 31 732 6050
info.kr@epluse.com

E+E Elektronik Corporation
T +1 847 490 0520
info.us@epluse.com



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