

EE66

Air Velocity Transmitter for **Measurement of Lowest Velocity**

EE66 air velocity transmitter series are designed for high accuracy measurement of lowest air velocities. It is the ideal solution for laminar flow control and special ventilation applications. The E+E thin film sensor is operating on an innovative hot film anemometer principle. This guarantees excellent accuracy for air velocity down to almost 0.15m/s, which is not possible for conventional anemometers with commercial temperature sensors or NTC bead thermistors.

The E+E sensor is much more insensitive to pollution than all other anemometer principles. This increases reliability and reduces maintenance costs.

EE66 series are available with current or voltage output, the measuring range and the response time can be selected with jumpers by the user.

Low angular dependence enables easy, cost-effective installation. An integrated LC display and a version with remote sensing probe are also available.

The configuration equipment allows air velocity adjustment of the sensor.





Typical Applications

clean room control laminar flow control

Technical Data Measuring values

	0 4			
Working range ¹⁾	01m/s (0200ft/min)			
	01.5m/s (0300ft/min)			
• (1)	02m/s (0400ft/min)			
Output ¹⁾	0 - 10 V	-1mA < I _L < 1 mA		
01m/s / 01.5m/s / 02m/s	4 - 20 mA	R _L < 450 Ω (linear, 3 wires)		
Accuracy at 20°C (68°F), 45% RH	0.151m/s (30200ft/min)	± (0.04m/s / 7.9ft/min + 2 % of m. v.)		
and 1013 hPa	0.151.5m/s (30300ft/min)	± (0.05m/s / 9.8ft/min + 2 % of m. v.)		
	0.152m/s (30400ft/min)	± (0.06m/s / 11.8ft/min + 2 % of m. v.)		
Response time $\tau_{90}^{(1)(2)}$	typ. 4 sec. or typ. 0.7 sec.	(at constant temperature)		
neral				
Power supply	24V AC/DC ± 20 %			
Current consumption for AC supply	max. 150 mA			
for DC supply	max. 90 mA			
Angular dependence	< 3 % of measurement at $ \Delta \alpha $ <	< 10°		
Cable gland	M16x1.5 cable Ø 4.5 -	10 mm (0.18 - 0.39")		
Electrical connection	screw terminals max. 1.5 mm ² (A)	WG 16)		
Electromagnetic compatibility	EN61326-1	((
	EN61326-2-3			
Housing material	Polycarbonate, UL94HB approve	d		
Protection class	IP65, Nema 4; with LC display: IP40; remot sensor probe: IP20			
Temperature range	working temperature probe			
	working temperature electronic			
	storage temperature	-3060°C (-22140°F)		
Working range humidity 1) Selectable by jumper	595 % RH (non-condensing)	· · · · · ·		

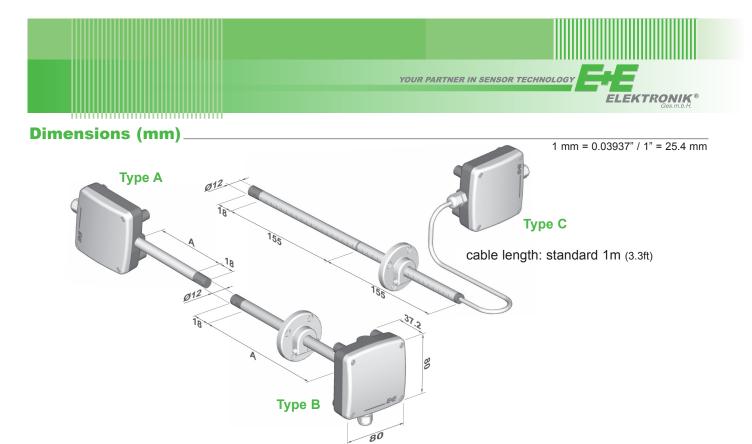
2) Response time τ_{s0} is measured from the beginning of a step change of air velocity to the moment of reaching 90% of the step.



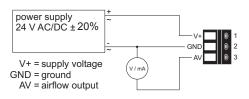
Features

measurement down to 0m/s low angular dependence easy installation

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Connection Diagram



Ordering Guide

MODEL		HOUSING		PROBE LENG (according to "A") (Type B only)	GTH	CABLE LEN (Type C only)	IGTH	DISPLAY	
velocity	(V)	wall mounting duct mounting remote sensor probe	(A) (B) (C)	100mm (3.9") 200mm (7.9") others	(3) (5) (x)	1m(3.3ft) 2m (6.6ft) 5m (16.4ft) 10m (32.8ft)	(no code) (K200) (K500) (K1000)	without display with display	(no code) (D02)
EE66-									

Order Example

EE66-VB5-D02	
model:	velocity
housing:	duct mounting
probe length:	200mm (7.9")
display:	with LC display

Accessories

- Snap in mounting flange for wall mounting (HA010204)
 Snap in mounting flange for duct mounting (HA010205)

Configuration equipment: The configuration equipment allows air velocity adjustment of the sensor.

Position 1: - configuration adapter (incl. USB cable for	PC) (HA011050)		
Position 2: - cable for configuration adapter	(HA011058)	HA011	058
Position 3: - configuration software: free download: www	w.epluse.com/EE66		
<i>Position 4 - optional:</i> - power supply for EE66	(V03)	HA011050	V03 (optional)
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