

- (+34) 968 162 005
- www.sensovant.com

# **EE660**

# The EE660 is designed for highly accurate measurement of very low air velocity. It is the ideal solution for laminar flow control and special ventilation applications for instance in clean rooms.

The E+E thin film sensor used in EE660 operates on the hot film anemometer principle, which stands for excellent accuracy down to 0.15 m/s (30 ft/min) and high insensitivity to pollution.

The measured data is available on the current and voltage outputs (both signals are available on the terminal) as well as on the optional LCD backlight display. The measurement range and the response time can be selected via a jumper.

Low angular dependence and the mounting flange enable easy, cost-effective installation.

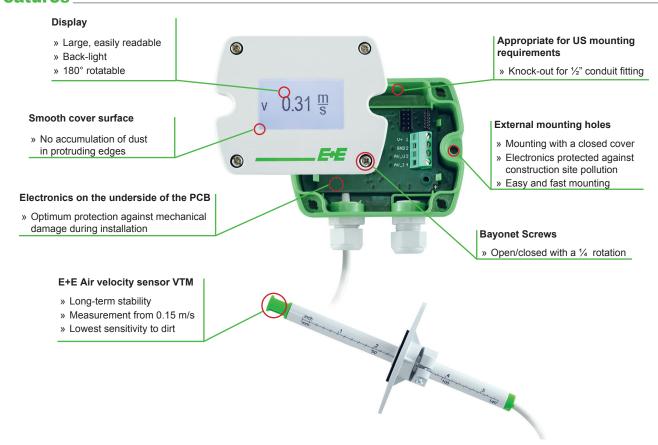
An optional kit facilitates easy adjustment of EE660 and configuration of the display.

# **Transmitter for Very Low Air Velocity**





#### **Features**





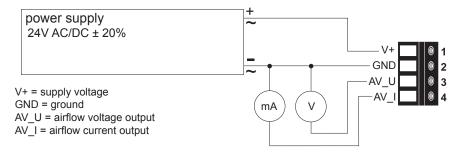
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#### **Technical Data**

Measuring values						
Working range 1)	01 m/s (0200ft/min)					
Working range						
	01.5 m/s (0300ft/min)					
0.1.1	02 m/s (0400ft/min)					
Output	0 - 10 V					
01 m/s / 01.5 m/s / 02 m/s	4 - 20 mA $R_L$ < 450 $\Omega$ (linear, 3-wires)					
Accuracy at 20 °C (68 °F),	$0.151 \text{ m/s}$ (30200 ft/min) $\pm (0.04 \text{ m/s} (7.9 \text{ ft/min}) + 2 \% \text{ of mv})$					
45 % RH, 1013 hPa	$0.151.5 \text{ m/s}$ (30300 ft/min) $\pm$ (0.05 m/s (9.8 ft/min) $+$ 2 % of mv)					
	$0.152 \text{ m/s}$ (30400 ft/min) $\pm$ (0.06 m/s (11.8 ft/min) $+$ 2 % of mv)					
Response time τ <sub>90</sub> 1) 2)	typ. 4 sec or typ. 1 sec (at constant temperature)					
General						
Power supply	24V AC/DC ± 20%					
Current consumption						
for AC supply	max. 180 mA rms (with Display), 74 mA rms (without Display)					
for DC supply	max. 85 mA (with Display), 41 mA (without Display)					
Angular dependence	< 3% of the measured value at   Δα   < 10°					
Electrical connection	screw terminals max. 1.5 mm² (AWG 16)					
Cable gland	M16x1.5					
Electromagnetic compatibility						
3 1 7	Industrial Environment					
Housing material	Polycarbonate, UL94V-0 (with Display UL94HB) approved					
Protection class	Enclosure IP65 / NEMA4, remote probe IP20					
Temperature range	working temperature probe -25 +50 °C (-13122°F)					
	working temperature electronic -10 +50 °C (14122°F)					
	storage temperature -30 +60 °C (-22140°F)					
Working range humidity	595 % RH (non-condensing)					
1) Selectable by jumper	omoo /o . a . (non condensing)					

## **Connection Diagram**

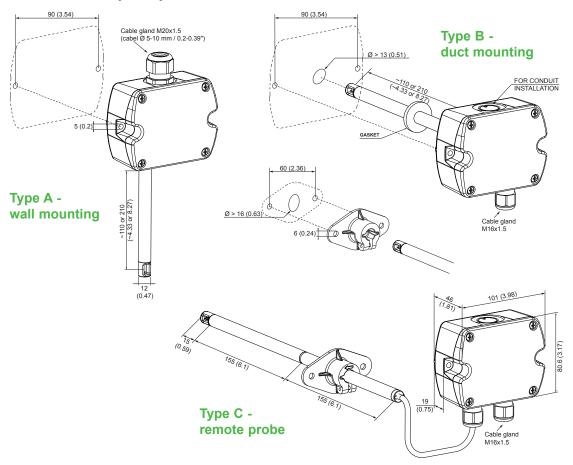


<sup>1)</sup> Selectable by jumper 2) Response time  $\tau_{00}$  is measured from the beginning of a step change of air velocity to the moment of reaching 90% of the step.



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## **Dimensions mm (inch)**



## **Ordering Guide**

MODEL		OUTPUT		HOUSING		PROBE LENG	<b>STH</b>	CABLE LENG	TH	DISPLA	Y	UNIT (Display)	
Velocity	(V)	0-10V / 4-20mA	(7x)	wall mounting	(A)	100mm (3.9")	(D)	1m (3.3 ft)	(B)	Display	(D)	metric [m/s]	(M)
				duct mounting	(B)	200mm (7.9")	(F)	2m (6.6 ft)	(D)	none	(x)	non-metric [ft/min]	(N)
				remote probe	(C)	housing C	(x)	5m (16.4 ft)	(G)				
								10m (32.8 ft)	(H)				
								housing A, B	(x)				
<b>EE660-</b>													

## **Order Example**

EE660-V7xBFxx

Velocity Model: Duct mounting Housing: Probe length: 200mm

no Display Display:

### EE660-V7xCxDD/M

Model: Velocity remote Probe Housing:

Cable length:

with Display metric (m/s) Display:

#### **Accessories**

Product configuration adapter Product configuration software

see data sheet EE-PCA EE-PCS (free download: www.epluse.com/EE660)

Power supply adapter V03 (see data sheet Accessories)







# Scope of Supply \_

EE660	Wall mount (Type A)	Duct mount (Type B)	Remote probe (Type C)		
EE660 Transmitter according ordering guide	✓	,	<b>✓</b>		
Cable gland	✓	✓			
Mounting flange		✓			
Mounting kit	✓	✓			
Protection cap	✓	✓			
Operation manual	✓	,	<b>✓</b>		
Test report according to DIN EN10204 - 2.2	<b>✓</b>	,	<b>✓</b>		

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