



# **EE660**

# **Transmitter for minimal Air Velocity**

The EE660 is intended for the precise measurement of minimal air velocities

The EE660 is the ideal solution for laminar flow monitoring and for applications in clean rooms.

The E+E flow sensor used in the EE660 functions in accordance with the hot film anemometer principle and permits outstanding measurement accuracy levels and very good long-term stability from as little as 0.15m/s.

The EE660 is available with a current and voltage output. Both signals are present on the terminal. The measurement range and the response time can be selected via a jumper.

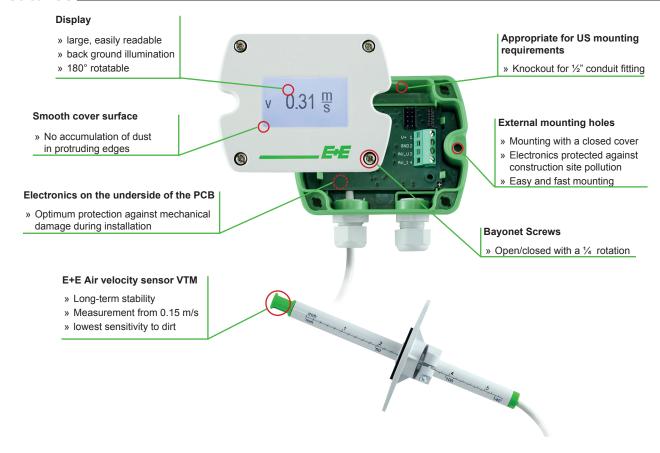
Various designs and a very small angle dependence facilitate easy, cost-effective mounting. For an on-site display of the measurement data, the flow transmitter is available with an integrated LCD display.

The transmitter can be adjusted using the configuration accessories. This means that display settings can also be changed.





#### **Features**







### **Technical Data**

Measuring values						
Working range 1)	01 m/s (0200ft/min)					
	01.5 m/s (0300ft/min)					
	02 m/s (0400ft/min)					
Output	$0 - 10 \text{ V}$ $-1 \text{ mA} < I_{\text{L}} < 1 \text{ mA}$					
01 m/s / 01.5 m/s / 02 m/s	4 - 20 mA $R_1$ < 450 $\Omega$ (linear, 3-wires)					
Accuracy at 20 °C (68 °F),	0.151 m/s (30200 ft/min) $\pm$ (0.04 m/s (7.9 ft/min) + 2 % 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 $\tau_{90}^{-1/2)}$	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 $ \Delta\alpha $ < 10°					
Electrical connection	screw terminals max. 1.5 mm² (AWG 16)					
Cable gland	M16x1.5					
Electromagnetic compatibility	EN61326-1 EN61326-2-3					
	Industrial Environment					
Housing material	Polycarbonate, UL94V-0 (with Display UL94HB) approved					
Protection class	Enclosure IP65 / NEMA4, remote probe IP20					

working temperature probe

storage temperature

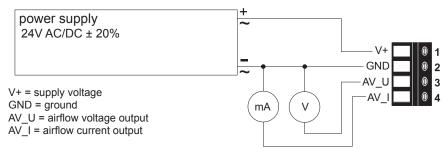
working temperature electronic

5...95 % RH (non-condensing)

Temperature range

Working range humidity

## **Connection Diagram**



# Configuration

With the configuration accessories an adjustment of the transmitter possible. Various display settings such as background illumination and orientation can also be adjusted.

## Position 1:

- configuration adapter (incl. USB cable for PC) (EE-PCA)

### Position 2:

(HA011062) - cable for configuration adapter

#### Position 3:

- configuration software: free download: www.epluse.com/EE660

#### Position 4:

- power supply for EE660 (V03)



-25 ... +50 °C (-13...122°F)

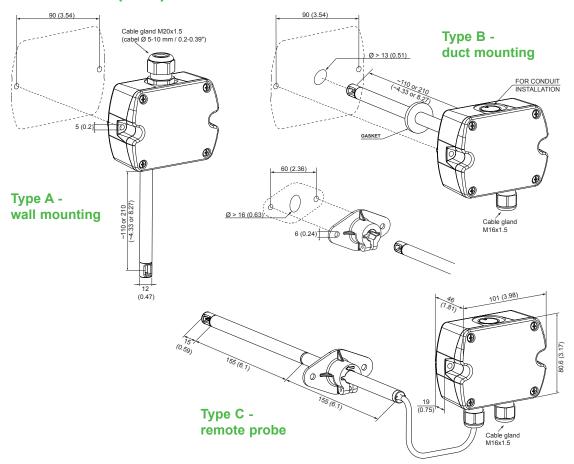
-10 ... +50 °C (14...122°F)

-30 ... +60 °C (-22...140°F)

<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.



# **Dimensions mm (inch)**



# **Ordering Guide**

MODEL		ANALOG 1)		DIGITA	<b>L</b> 1)	HOUSING		PROBE LE	NGTH	CABLE LEN	GTH	DISPL	AY
Velocity	(V)	0-10V / 4-20mA	(7)	none	(x)	wall mounting 2)	(A)	100mm (3.9")	(D)	1m (3.3 ft)	(B)	Display	(D)
						duct mounting	(B)	200mm (7.9")	(F)	2m (6.6 ft)	(D)	none	(x)
						remote probe	(C)	housing C	(x)	5m (16.4 ft)	(G)		
										10m (32.8 ft)	(H)		
										housing A, B	(x)		
EE660-													

<sup>1)</sup> A combination of analog and digital version is not possible

2) available June 2015

### Setup - Display

00	up	Display	
UN	IT		
met	ric [m/s	3]	(M)
non	-metric	: [ft/min]	(N)

# **Order Example**

EE660-V7xBFxxModel:VelocityHousing:Duct mountingProbe lenght:200mmDisplay:no Display

EE660-V7xCxDD/M

Model: Velocity Housing: remote Probe

Cable length: 2m

Display: with Display metric (m/s)

# **Accessories**

Product configuration adapter Product configuration software Power supply adapter see data sheet EE-PCA

EE-PCS (free download: www.epluse.com/EE660)

V03 (see data sheet Accessories)

### www.corema.fr

### CONTROLE REGULATION MESURE AUTOMATISME

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