

EE660

Transmitter for Very Low Air Velocity

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.

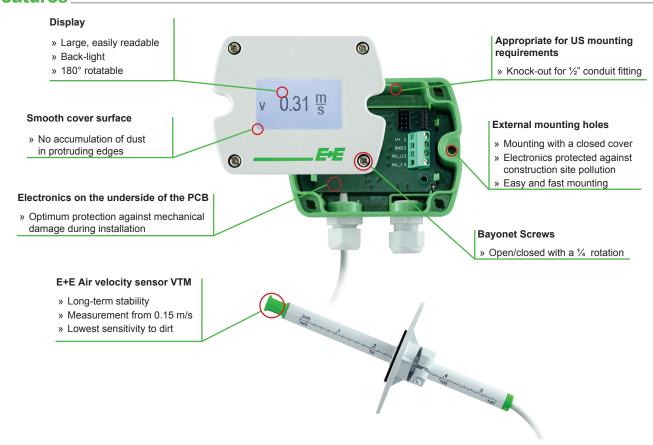
Low angular dependence and the mounting flange enable easy, cost-effective installation.

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





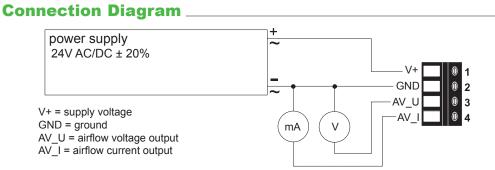
Features



34 v1.1 / Modification rights reserved EE660

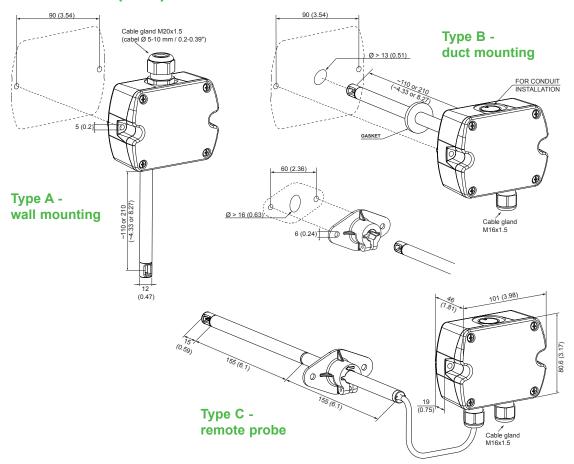
Technical Data

easuring values							
Working range 1)	01 m/s (0200ft/min)						
	01.5 m/s (0300ft/min)						
	02 m/s (0400ft/min)						
Output	0 - 10 V -1 mA < I ₁ < 1 mA						
01 m/s / 01.5 m/s / 02 m/s	4 - 20 mA R_{l} < 450 Ω (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 m/s (30400 ft/min) $\pm (0.06 \text{ m/s} (11.8 \text{ ft/min}) + 2 \% \text{ of mv})$						
Response time τ ₉₀ 1) 2)	typ. 4 sec or typ. 1 sec (at constant temperature)						
neral							
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 mm ² (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						
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)						





Dimensions mm (inch)



Ordering Guide

MODEL		ANALOG1)		DIGITAL ¹⁾		HOUSING		PROBE LENGTH		CABLE LENGTH		DISPLAY		UNIT (Display)	
Velocity	(V)	0-10V /	(7)	none	(x)	wall mounting ²⁾	(A)	100mm (3.9")	(D)	1m (3.3 ft)	(B)	Display	(D)	metric [m/s]	(M)
		4-20mA				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)				
EE660-															

¹⁾ A combination of analog and digital version is not possible

EE660-V7xCxDD/M

Order Example

EE660-V7xBFxx

Model:VelocityModel:VelocityHousing:Duct mountingHousing:remote ProbeProbe length:200mmCable length:2m

Display: no Display Display: with Display metric (m/s)

Accessories

Product configuration adapter see data sheet EE-PCA

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

Power supply adapter V03 (see data sheet Accessories)

²⁾ available June 2015