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+ Datasheet EE660

Low Air Velocity Sensor



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QUOTATION

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EE660

Low Air Velocity Sensor

The EE660 is optimized for highly accurate measurement of very low air velocity in laminar flow control and special ventilation applications, for instance in clean rooms.

Excellent Measurement Performance

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

Analogue and Digital Outputs

The air velocity measured data is available as current and voltage outputs or on the RS485 interface with Modbus RTU protocol, as well as on the optional display.

Easy Configuration and Adjustment

The EE660 is user configurable with jumpers on the electronics board or via software. An optional configuration stick and the free PCS10 Product Configuration Software facilitate the adjustment of EE660 and the display setup.

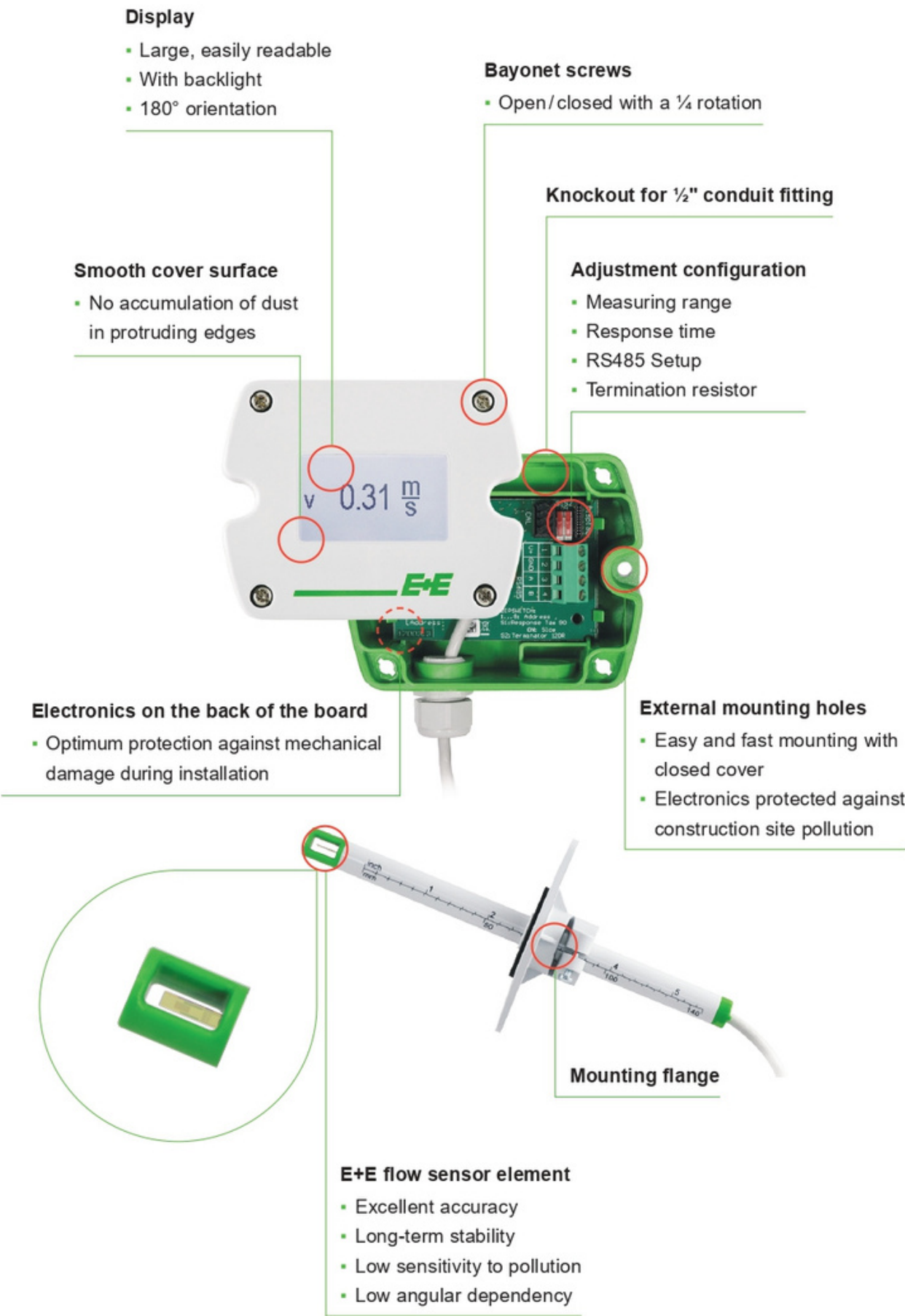


EE660 - T2 duct mount



EE660 - T3 with display and remote probe

Features



Test report
According to DIN EN 10204-2.2

Air Velocity (v)

Measuring range Selectable by jumper, only for analogue output	0...1 m/s (0...200 ft/min) 0...1.5 m/s (0...300 ft/min) 0...2 m/s (0...400 ft/min)
Accuracy¹⁾ in air @ 20 °C (68 °F), 45 %RH and 1013 hPa (14.7 psi)	mv = measured value 0.15...1 m/s (30...200 ft/min) $\pm(0.04 \text{ m/s} + 2 \% \text{ of mv}) / \pm(7.9 \text{ ft/min} + 2 \% \text{ of mv})$ 0.15...1.5 m/s (30...300 ft/min) $\pm(0.05 \text{ m/s} + 2 \% \text{ of mv}) / \pm(9.8 \text{ ft/min} + 2 \% \text{ of mv})$ 0.15...2 m/s (30...400 ft/min) $\pm(0.06 \text{ m/s} + 2 \% \text{ of mv}) / \pm(11.8 \text{ ft/min} + 2 \% \text{ of mv})$
Response time t_{90}, typ. @ constant temperature	4 s or 1 s (Selectable by jumper (analogue) and slide switch (digital))

Outputs

Air velocity (v)	0 - 10 V 4 - 20 mA (linear, 3-wire)	-1 < I_L < 1 mA R_L < 450 Ω	I_L = load current R_L = load resistance
Scaling area	0...1 m/s / 0...1.5 m/s / 0...2 m/s (selectable by jumper, only for analogue output)		

Digital interface	RS485 (EE660 = 1 unit load)
Protocol	Modbus RTU
Factory settings	9600 Baud, parity even, 1 stop bit, Modbus address 65
Supported Baud rates	9600, 19200 and 38400
Measured data types	FLOAT32 and INT16

Technical Data

General

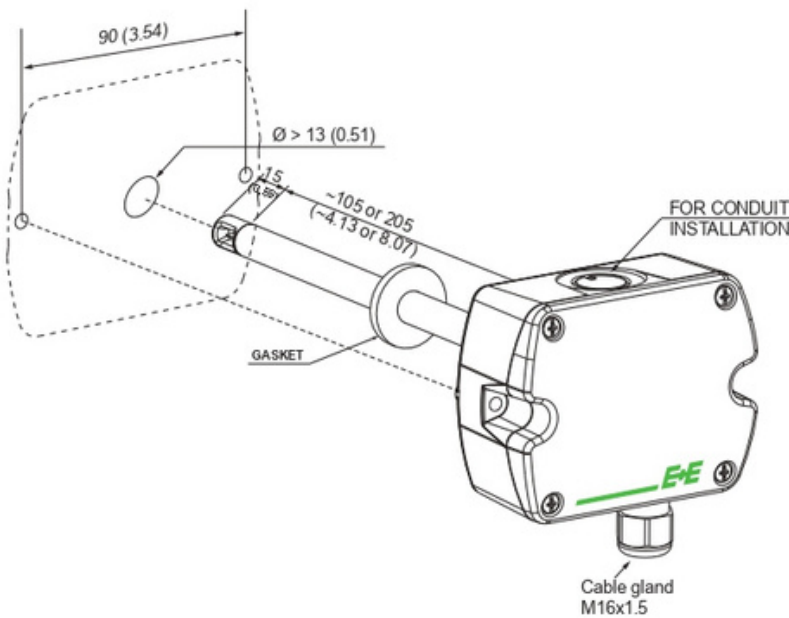
Power supply class III  USA & Canada: Class 2 supply necessary		24 V AC/DC ±20 %			
Current consumption, max.		AC supply - no display	DC supply - no display	AC supply - with display	DC supply - with display
	Analogue output	74 mA _{rms}	41 mA	180 mA _{rms}	85 mA
	Digital output	120 mA _{rms}	50 mA		
Dependency	of inflow angle (α) of inflow direction	<3% for α <10° <3%			
Electrical connection		Screw terminals max. 1.5 mm² (AWG 16)			
Cable gland		M16x1.5			
Humidity working range		5...95 %RH, non-condensing			
Temperature range	Probe Electronics Storage	-25 °C...+50 °C (-13 °F...+122 °F) -10 °C...+50 °C (-14 °F...+122 °F) -30 °C...+60 °C (-22 °F...+140 °F)			
Enclosure	Material Protection rating Compliance	PC (Polycarbonate) IP65 / NEMA 4X UL94 V-0 approved / with display: UL94 HB approved			
Protection rating	Remote probe	IP20			
Electromagnetic compatibility		EN 61326-1 FCC Part15 Class A	EN 61326-2-3 ICES-003 Class A	Industrial environment	
Conformity		 			
Configuration and adjustment		PCS10 Product Configuration Software (free download) and configuration stick.			

Dimensions

Values in mm (inch)

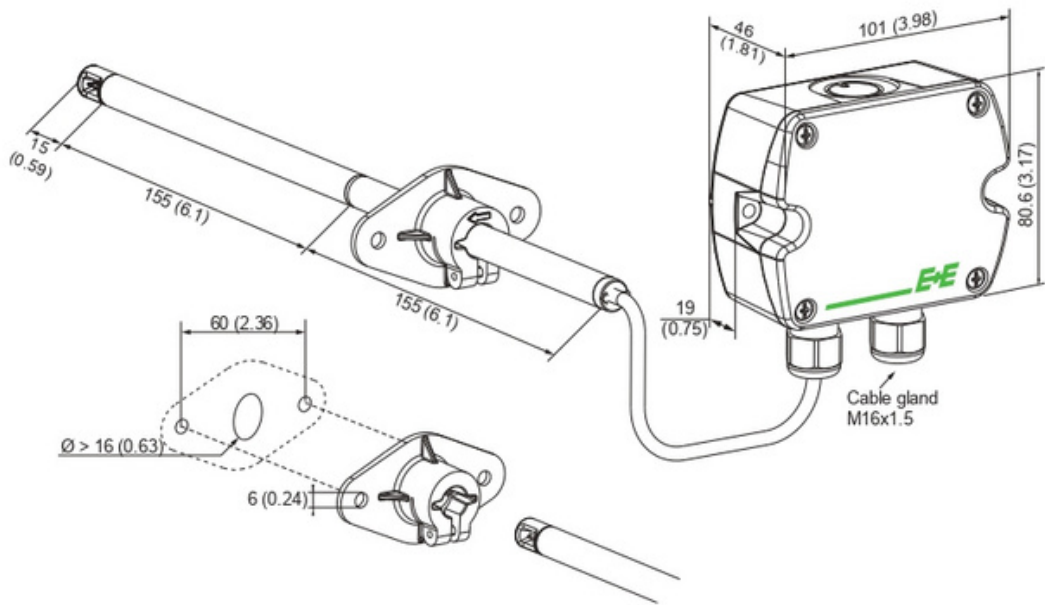
Type

T2: Duct mount



Type

T3: Remote probe



Ordering Guide

Feature	Description	Code	
Hardware Configuration		EE660-	
	Type	T2	
			T3
	Output	A7	
		J3	
	Probe length	L100	
		L200	
			L300
	Probe cable length		K1
			K2
			K5
			K10
	Display	No code	
		D2	
	Display unit	No code	
		DA21	
Digital Interface	Protocol	P1	
	Baud rate	BD5	
		BD6	
		BD7	

1) Further information in the Modbus Map, see User Guide at www.epluse.com/ee660.

Order Examples

EE660-T3J3L300K1P1BD5

Feature	Code	Description
Type	T3	Remote probe
Output	J3	RS485
Probe length	L300	300 mm (11.81")
Probe cable length	K1	1 m (3.3 ft)
Display	No code	Without display
Protocol	P1	Modbus RTU
Baud rate	BD5	9 600

EE660-T2A7L200

Feature	Code	Description
Type	T2	Duct mount
Output	A7	0 - 10 V and 4 - 20 mA
Probe length	L200	200 mm (7.87")

Accessories

For further information please refer to the [Accessories](#) datasheet.

Description	Code
USB-C configuration stick	HA011070
PCS10 Product Configuration Software (free download: www.epluse.com/pcs10)	PCS10
Power supply adapter	V03

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