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, on the RS485 interface with Modbus RTU or BACnet 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 adapter and the free EE-PCS Product Configuration Software facilitate the adjustment of EE660 and the display setup.

**Features**

- **Display**
  - Large, easily readable
  - With backlight
  - 180° rotatable

- **Smooth cover surface**
  - No accumulation of dust in protruding edges

- **Electronics on the underside of the board**
  - Optimum protection against mechanical damage during installation

- **E+E sensing element**
  - Excellent accuracy
  - Long-term stability
  - Low sensitivity to pollution
  - Low angular dependency

- **Appropriate for US mounting requirements**
  - Knock-out for ½” conduit fitting

- **External mounting holes**
  - Easy and fast mounting with closed cover
  - Electronics protected against construction site pollution

- **Bayonet screws**
  - Open/closed with a ¼ rotation

- **Mounting flange**

- **Adjustment configuration**
  - Measuring range
  - Response time
  - RS485 Setup
  - Termination resistor

- **Test report according DIN EN 10204 - 2.2**
Technical Data

Measurand

Working range 1) 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)

Accuracy at 20 °C 2) (68 °F), 45 % RH, 1013 hPa
0.15...1 m/s (30...200 ft/min) ± (0.04 m/s (7.9 ft/min) + 2 % of mv)
0.15...1.5 m/s (30...300 ft/min) ± (0.05 m/s (9.8 ft/min) + 2 % of mv)
0.15...2 m/s (30...400 ft/min) ± (0.06 m/s (11.8 ft/min) + 2 % of mv)

Response time τ 3) typ. 4 sec or typ. 1 sec (at constant temperature)

Output

Analogue

0...1 m/s / 0...1.5 m/s / 0...2 m/s 1) -1 mA < I L < 1 mA R L < 450 Ω (linear, 3-wires)

Output

Analogue

0 - 10 V and 4 - 20 mA

Analogue output

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

Digital interface

RS485 with max. 32 devices on one bus

Protocol

Modbus RTU or BACnet MS/TP

General

Power supply (Class III) 24 V AC/DC ± 20 %

Current consumption (max.)

Analogue output

DC supply -
no display

AC supply -
with display

DC supply -
with display

Analogue output

AC supply -
no display

DC supply -
no display

AC supply -
with display

DC supply -
with 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

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 (-13...122 °F)

working temperature electronic -10 ... +50 °C (14...122 °F)

storage temperature -30 ... +60 °C (-22...140 °F)

Working range humidity

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

1) Selectable by jumper, only for analogue output

2) The accuracy statement includes the uncertainty of the factory calibration with an enhancement factor k=2 (2-times standard deviation). The accuracy was calculated in accordance with EA-4/02 and with regard to GUM (Guide to the Expression of Uncertainty in Measurement).

3) Selectable by jumper (analogue) and slide switch (digital)

Dimensions mm (inch)
# Ordering Guide

<table>
<thead>
<tr>
<th>Configuration</th>
<th>EE660-</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>duct mount</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>0-10 V and 4-20 mA</td>
</tr>
<tr>
<td><strong>Probe length</strong></td>
<td>100 mm (3.94&quot;)</td>
</tr>
<tr>
<td></td>
<td>300 mm (11.82&quot;)</td>
</tr>
<tr>
<td><strong>Cable length</strong></td>
<td>1 m (3.3 ft)</td>
</tr>
<tr>
<td></td>
<td>5 m (16.4 ft)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>no display</td>
</tr>
<tr>
<td><strong>Display unit</strong></td>
<td>m/s</td>
</tr>
<tr>
<td><strong>Protocol</strong></td>
<td>Modbus RTU 1)</td>
</tr>
<tr>
<td><strong>Baud rate</strong></td>
<td>9600</td>
</tr>
<tr>
<td></td>
<td>38400</td>
</tr>
<tr>
<td></td>
<td>76800 3)</td>
</tr>
</tbody>
</table>

1) Factory setting: Even Parity, Stopbits 1  
2) Factory setting: No Parity, Stopbits 1  
3) Only for BACnet MS/TP  

Order Examples

**EE660-T3J3L300K1P1BD5**  
Model: remote probe  
Output: RS485  
Probe length: 300 mm (11.82")  
Cable length: 1 m (3.3 ft)  
Display: no display  
Protocol: Modbus RTU  
Baud rate: 9600

**EE660-T2A7L200**  
Model: duct mount  
Output: 0-10 V and 4-20 mA  
Probe length: 200 mm (7.88")  

**Accessories**

- USB configuration adapter: HA011066  
- Product configuration software: EE-PCS (free download: www.epluse.com/EE660)  
- Power supply adapter: V03 (see data sheet Accessories)