



Flow Meter FOMNEE66-VC-D02

Compatible with DATAcentre, MIDCentre & Assure24seven



The EE66 air velocity transmitter series is designed for high accuracy measurement of low air velocities. It is the ideal solution for laminar flow control and special ventilation applications. The E+E thin film sensor operates on an innovative hot film anemometer principle. This guarantees excellent accuracy for air velocity down to almost 0.15m/s, which is not possible for conventional anemometers with commercial temperature sensors or NTC bead thermistors.

The E+E sensor is much more insensitive to pollution than all other anemometer principles. This increases reliability and reduces maintenance costs.

EE66 series are available with current or voltage output; the measuring range and the response time can be selected with jumpers by the user.

Low angular dependence enables easy, cost-effective installation. An integrated LC display and a version with remote sensing probe are also available.

Technical Data		
Measuring Values	0 to 1m/s (0 to 200ft/min)	
Working range ¹⁾	0 to 1.5m/s (0 to 300ft/min) 0 to 2m/s (0 to 400ft/min)	
Output ¹⁾	0 - 10 V	-1mA <I _L < 1 mA
0 to 1m/s / 0 to 1.5m/s / 0 to 2m/s	4 - 20 mA	R _L < 450 Ω
Accuracy at 20°C (68°F), 45% RH and 1013 hPa	0.15 to 1m/s (30 to 200ft/min)	± (0.04m/s / 7.9ft/min + 2 % of m. v.)
	0.15 to 1.5m/s (30 to 300ft/min)	± (0.05m/s / 9.8ft/min + 2 % of m. v.)
	0.15 to 2m/s (30 to 400ft/min)	± (0.06m/s / 11.8ft/min + 2 % of m. v.)
Response time τ ₉₀ ^{1) 2)}	Typ. 4 sec. Or typ. 0.2 sec.	(at constant temperature)
General Power Supply	SELV 24V AC/DC ± 20 %	SELV = Safety Extra Low Voltage
Current consumption for AC supply for DC supply	max. 150 mA	max. 90 mA
Angular dependence	< 3 % of measurement at Δα < 10°	
Cable gland	M16x1.5 cable Ø 4.5 - 10 mm (0.18 - 0.39")	
Electrical connection	Screw terminals max. 1.5 mm ² (AWG 16)	
Electromagnetic compatibility	EN 50081-1 EN 50082-1 EN 50082-2	
Housing / protecting class	Polycarbonate / IP65, Nema 4 with LC display: IP40	
Temperature range	Working temperature probe	-25°C to 50°C (-13°F to 122°F)
	Working temperature electronic	-10°C to 50°C (14°F to 122°F)
	Storage temperature	-30°C to 60°C (-22°F to 140°F)
1) Selectable by jumper		
2) Response time τ ₉₀ is measured from the beginning of a step change of air velocity to the moment of reaching 90% of the step		