

TRANSMITTERS FOR HVAC

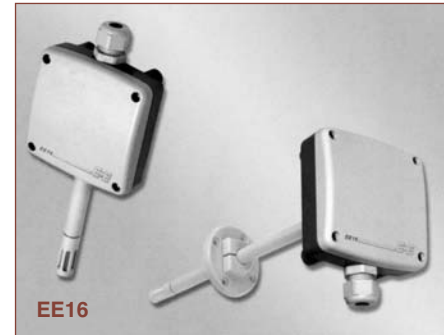
EE16 Series

EE16 transmitters are the ideal solution for accurate measurement of relative humidity and temperature at a reasonable price in HVAC applications. The appropriate filter cap enables employment in heavily polluted environment.

The new developed E+E humidity sensors HC101 guarantee excellent long term stability and resistance against chemical pollutants. Their excellent reproducibility allows a simple low-cost-one-point calibration for very good accuracy over the entire working range.

EE16 transmitters are available as wall or duct mounted, with current or voltage output signals.

Humidity / Temperature Transmitter for HVAC Applications



Typical Applications

- Building-automation
- Storage rooms
- Climate and ventilation control

Features

- Excellent price/performance ratio
- Wettable
- Long term stable

Technical Data EE16

Measuring Values

Relative Humidity

Sensor	HC101	
Output appropriate 0...100% RH	0-1V 4-20mA (two wires)	-1 mA < I _L < 1 mA R _L < 500 Ohm
Working range ¹⁾	10...95% RH	
Accuracy at 20°C (68°F)	± 3% RH	
Temperature dependence at 45% RH	typ. -0.05% RH/°C (-0.03% RH/°F)	

Temperature

Sensor	Pt1000 (class A, DIN EN 60751)	
Output appropriate 0...50°C (-32...122°F)	0-10V 4-20mA (two wires)	-1 mA < I _L < 1 mA R _L < 500 Ohm
Accuracy at 20°C (68°F) ²⁾	± 0.3°C (± 0.5°F)	

General

Supply voltage for 0 – 1V for 4 – 20mA	10 - 35V DC or 24V AC ± 20% 10V + R _L x 20 mA < U _V < 35V DC	
Current consumption	for DC supply	typ. 8 mA
	for AC supply	typ. 20 mA _{eff}
Electrical connection	screw terminals max. 1.5mm ² (AWG 16)	
Housing / protection class	Polycarbonat / IP65; Nema 4	
Cable gland	M16x1.5 cable ø 4.5 - 10 mm (0.18 - 0.39")	
Sensor protection	membrane filter, metal grid filter, stainless steel sintered filter	
Electromagnetic compatibility	EN 61000-6-1	EN 61326-1+A1+A2
	EN 61000-6-3	
Temperature ranges	working temperature:	-5...50°C (23...122°F)
	storage temperature:	-25...60°C (-13...140°F)

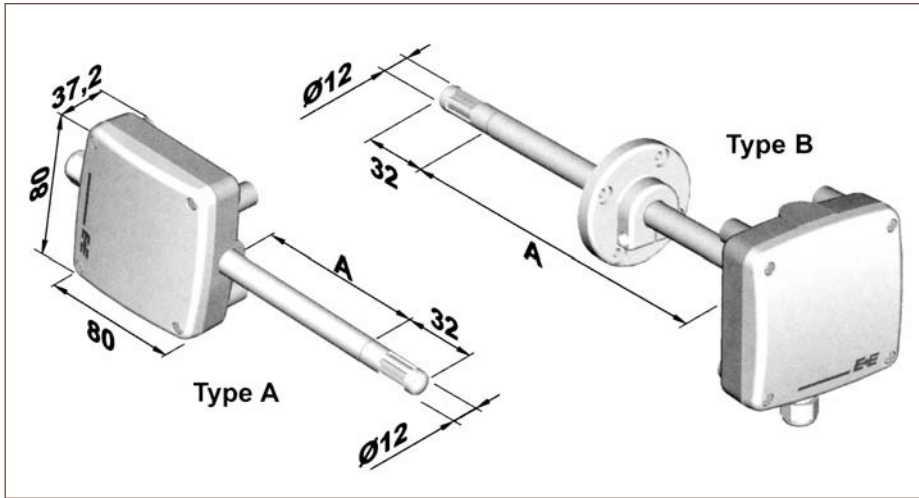
¹⁾ Please refer to working range of HC101

²⁾ Please note: temperature accuracy EE16-x6xx2x: ±0.5°C (± 0.9°F)

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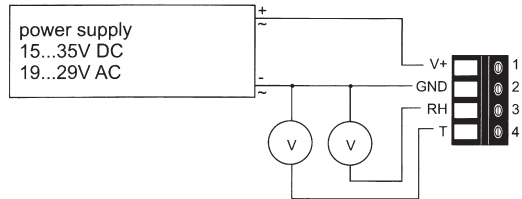
Housing Dimensions (mm)

1 mm = 0.03937" / 1" = 25.4 mm

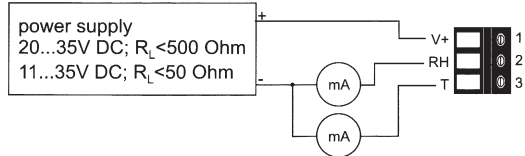


Connection Diagram

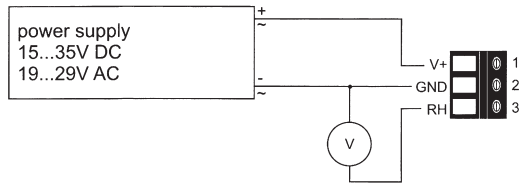
EE16-FT3xxx



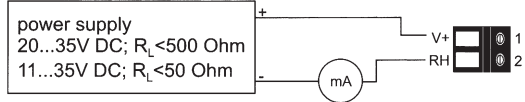
EE16-FT6xxx



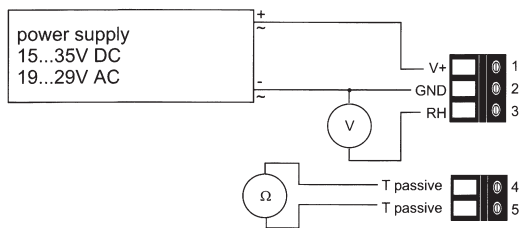
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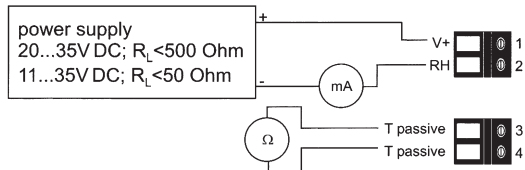
EE16-F6xxx



EE16-FP3xxx



EE16-FP6xxx



Ordering Guide EE16

Model	Output	T-Sensor (only model FP)	Housing	Probe Length (according to "A")	Filter
humidity + temperature (FT)	0 - 10 CV (3) 4 - 20 mA (6)	Pt 100 DIN A (A) Pt 100 DIN B (B)	wall mounting (A) duct mounting (B)	50 mm (1.9") (2) 200 mm (7.9") (5)	membrane filter (1) sintered stainless steel filter (3) metal grid (6)
humidity (F) humidity + temperature passive (FP)		Pt 1000 DIN A (C) Pt 1000 DIN B (D) others on request			
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