

EE16 Series

Humidity / Temperature Transmitter for HVAC Applications

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.



EE16

Typical Applications

building-automation
 storage rooms
 climate and ventilation control

Features

excellent price/performance ratio
 wettable
 long term stable

Technical Data

Measuring values

Relative Humidity

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

Temperature

Sensor	Pt1000 (class A, DIN EN 60751)		
Output appropriate 0...50 degC (32...122°F)	0-10 V	-1 mA < I _L < 1 mA	
	4-20 mA (two wire)	R _L < 500 Ohm	
Accuracy at 20 degC (68°F)	±0.5 degC (±0.9°F)		

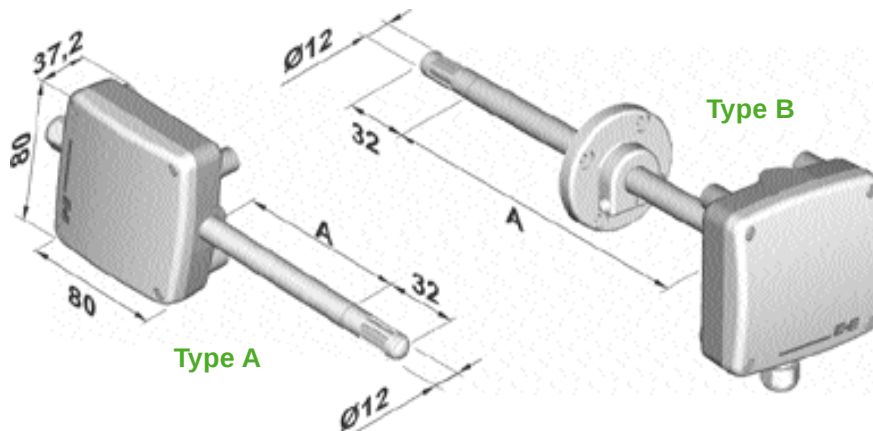
General

Supply voltage			
for 0 - 10 V	15 - 35V DC or 24V AC ±20%		
for 4 - 20 mA	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. 1.5 mm² (AWG 16)		
Housing / protection class	Polycarbonat / IP65; Nema 4		
Cable gland	M16 x 1.5	cable Ø 4.5 - 10 mm (0.18 - 0.39 inch)	
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 range	working temperature:	-5...50 degC (23...122°F)	
	storage temperature:	-25...60 degC (-13...140°F)	



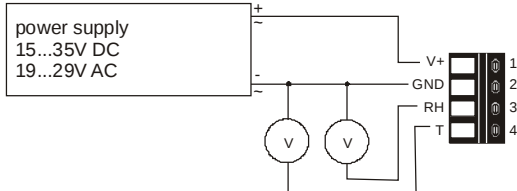
Housing Dimensions (mm)

1 mm = 0.03937 inch / 1 inch = 25.4 mm

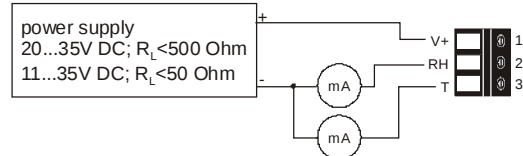


Connection Diagram

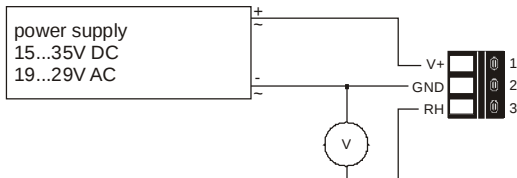
EE16-FT3xxx



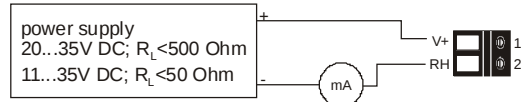
EE16-FT6xxx



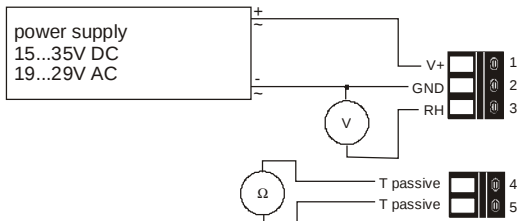
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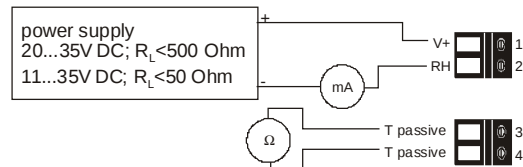
EE16-F6xxx



EE16-FP3xxx



EE16-FP6xxx



Ordering Guide

MODEL	OUTPUT	T-Sensor (only model FP)	HOUSING	PROBE LENGHT (according to "A")	FILTER
humidity + temperature (FT)	0-10V (3)	Pt 100 DIN A (A)	wall mounting (A)	50 mm (1.9 inch) (2)	membrane filter (1)
humidity (F)	4-20 mA (6)	Pt 100 DIN B (B)	duct mounting (B)	200 mm (7.9 inch) (5)	sintered stainless
humidity + temperature (FP)		Pt 1000 DIN A (C)			steel filter (3)
passive		Pt 1000 DIN B (D)			metal grid (6)
others on request					
EE16-					

Order Example

EE16-F3A21

model: humidity transmitter
output: 0-10V
housing: wall mounting
probe lenght: 50 mm (1.9 inch)
filter: membrane filter