

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.

Typical Applications

building-automation storage rooms climate and ventilation control

Technical Data Measuring values

Humidity / Temperature Transmitter for HVAC Applications



Features

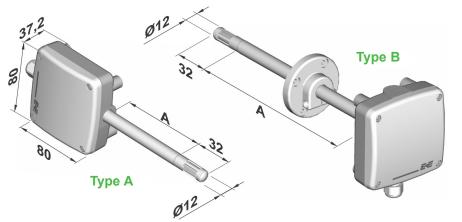
excellent price/performance ratio wettable long term stable traceable calibration

Relative Humidity							
Sensor	HC101						
Output appropriate 0100% RH	0-10 V	-1 mA < I_ < 1 mA					
	4-20 mA (two wire)	R ₋ < 500 Ohm					
Working range ¹⁾	1095% RH						
Accuracy at 20°C (68°F)	±3% RH						
	Traceable to intern. standards, administrated by NIST, PTB, BEV						
Temperature dependence at 45% RH	typ0.05% RH /°C (-(0.03% RH / °F)					
Temperature							
Sensor	Pt1000 (class A, DIN E	N 60751)					
Output appropriate 050°C (32122°F)	0-10 V	-1 mA < I_ < 1 mA					
	4-20 mA (two wire)	R ₋ < 500 Ohm					
Accuracy at 20°C (68°F) ²⁾	±0.3°C (±0.5°F)						
eral							
Supply voltage							
for 0 - 10 V	15 - 35V DC or 24V AC	C ±20%					
for 4 - 20 mA	10V + R _L x 20 mA < Uv	< 35V DC					
Current consumption	for DC supply ty	p. 8 mA					
	for AC supply ty	p. 20 mA _{er}					
Electrical connection	screw terminals max. 1	.5 mm ² (AWG 16)					
Housing / protection class	Polycarbonat / IP65; Ne	ema 4					
Cable gland	M16 x 1.5 ca	able Ø 4.5 - 10 mm (0.18 - 0.39")					
Sensor protection	membrane filter, metal	grid filter, stainless steel sintered filter					
Electromagnetic compatibility	EN61326-1						
	EN61326-2-3						
Temperature range	working temperature:	-550°C (23122°F)					
	storage temperature:	-2560°C (-13140°F)					

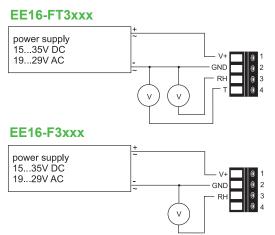
2) Please note: temperature accuracy EE16-x6xx2x: ±0.5°C (±0.9°F)

1 mm = 0.03937" / 1" = 25.4 mm

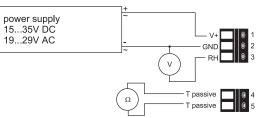
Housing Dimensions (mm)



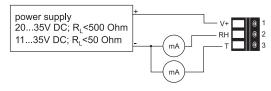
Connection Diagram



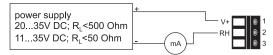
EE16-FP3xxx



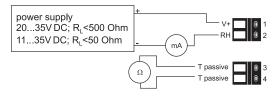
EE16-FT6xxx



EE16-F6xxx



EE16-FP6xxx



Ordering Guide

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

Order Example

EE16-F3A21

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

EE16