

EE10

HVAC Humidity / Temperature Transmitter for Indoor Applications

EE10 room transmitters are the ideal solution for indoor applications such as HVAC in residential and official buildings. The very stylish, functional housing makes easy installation and fast exchange of the sensing unit for service purposes possible. The high quality E+E humidity sensor and state-of-the-art microprocessor controlled electronics are the guarantee for best accuracy and a wide range of

The standard humidity output of EE10 transmitters is 4 - 20 mA or 0 - 10 V. The temperature output signal can be active or passive.

All EE10 versions can be equipped with a good legible LC display. For EE10-FT versions the displayed values for humidity and temperature will alternate. Two different housing designs ensure professional appearance according to regional standards.



Typical Applications

Features

building management for residential and office areas air conditioning in switching cabinets climate control in hotels and museums

excellent price / performance ratio easiest installation modern design long term stable optional display

Technical Data _____

Meas	uring	Quan	tities

Re	lative	Humidity

Humidity sensor	HC103		
Analogue output 0100% RH	0-10 V	-1 mA < I _∟ < 1mA	
	4-20 mA (two wires)	R _L < (U _v -10)/0.02 < 500 Ohm	
Working range ¹⁾	095 % RH		
Accuracy at 20°C (68°F) and U _v =24VDC	±2% RH (4060% RH)	±3% RH (1090% RH)	
	Traceable to intern. standa	ards, administrated by NIST, PTB, BEV	
Temperature dependence at 60% RH	typical 0.06% RH /°C (0.03% RH / °F)		
Temperature (active output)	0-10 V	-1 mA < I _L < 1mA	
	4-20 mA (two wires)	R _L < (U _v -10)/0.02 < 500 Ohm	
Accuracy at 20°C (68°F) and U _v =24VDC	FT3: ±0.25°C (±0.45°F)	FT6: ±0.4°C (±0.72°F)	
Temperature (passive output)			
Type of T-Sensor	nlease see ordering quid	Δ	

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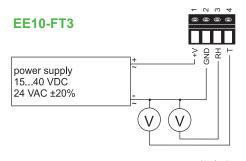
Type of T-Sensor	please see ordering guide			
eral Data Voltage supply (U _v)				
for 0 - 10 V	15 - 40 VDC or 24 VAC ±20%			
for 4 - 20 mA	28V DC > U _v > 10 + 0.02 x R _t (R _t < 500 Ohm)			
Current consumption	for DC supply: typical 4 mA for AC supply: typical 15 mA			
Electrical connection	screw terminals max. 1.5 mm ² (AWG 1	6)		
Housing material	Polycarbonat US Version: UL94V-0 approved / EU V	Version: UL94HB approved		
Protection class	IP30			
Display	for EE10-FTx version for EE10-Fx and EE10-FPx version	Humidity / Temperature alternating Humidity		
CE compatibility according	EN61326-1 EN61326-2-3	Ć		
Temperature ranges	working temperature range: storage temperature range:	-555°C (23131°F) -2560°C (-13140°F)		

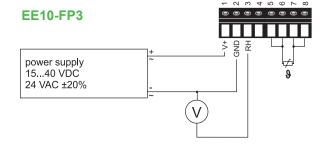
¹⁾ Please refer to the working range of the HC103

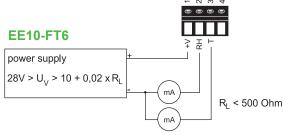
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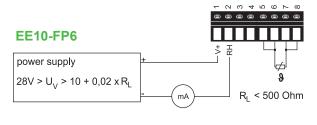


Connection Diagram -

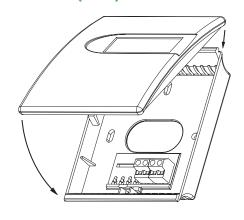








Dimensions (mm)



Housing colour:

Standard (EU & US):

Front cover: Signal white RAL 9003
Back cover: Light grey RAL 7035

Optional (only EU):

Front and Grey (Anthracite grey RAL 7016) back cover Silver (White aluminum RAL 9006)

EU: W x H x D = 85 x 100 x 26 mm (3.3 x 3.9 x 1") **US:** W x H x D = 85 x 136 x 26 mm (3.3 x 5.4 x 1")

Ordering Guide

MODEL	ОИТРИТ	T-SENSOR ¹⁾ (only passive)	DISPLAY	HOUSING DESIGN & COLOUR		T-UNIT	T-SCAL (only for F	_
humidity + (FT)	0 - 10 V (3)	Pt 100 DIN A (A)	without display ()	EU-Standard (RAL9003 / RAL7035)	()	°C ()	050	(T04)
temperature	4 - 20 mA (6)	Pt 1000 DIN A (C)	with display (D04)	EU-Grey (RAL7016)	(G)	°F (E01)	-555	(T31)
humidity + (FP)		Ni1000, TK6180 (J)		EU-Silver (RAL9006)	(S)		040	(T55)
temperature passive		NTC10k (E)		US (RAL9003 / RAL7035)	(US)		20120	(T15)
		NTC1.8 (G)					32122	(T76)
							32132	(T96)
EE10-								

1) T-Sensor details see www.epluse.com/R-T_Characteristics

2) other scaling upon request

Order Example _

EE10-FT3-D04-T04

Model: humidity + temperature

Output: 0-10 V Display: with display

Housing design & colour EU-Standard (RAL9003 / RAL7035)

T-Unit: °C T-Scale: 0...50

Scope of supply

- EE10 Transmitter according to ordering guide
- Mounting materials
- Test report according to DIN EN10204 2.2

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