

HVAC Humidity / Temperature Transmitter for Indoor Applications

EE10 room transmitters are the ideal solution for indoor applications such as HVAC in residential and 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 guarantee for best accuracy and a wide range of options.

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

Moscuring	Quantities
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Dalatha	Humidity
REISTIVE	HIIMINITY

Humidity sensor	HC103				
Analogue output 0100% RH	0-10 V	-1 mA < I _L < 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. standards, 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)	$R_{L} < (U_{v}-10)/0.02 < 500 \text{ Ohm}$			
Accuracy at 20°C (68°F) and U ₂ =24VDC	FT3: ±0.25°C (±0.45°F)	FT6: ±0.4°C (±0.72°F)			
Temperature (passive output)					
Type of T-Sensor	please see ordering guide				

Gene

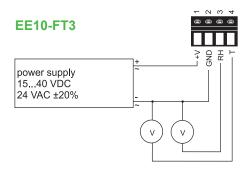
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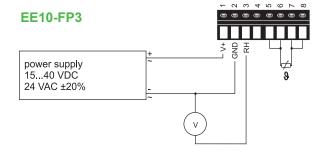
please see ordering guide				
15 - 40 VDC or 24 VAC ±20%				
28V DC > U _v > 10 + 0.02 x R _v (R _v < 5	500 Ohm)			
for DC supply: typical 4 mA for AC supply: typical 15 mA				
screw terminals max. 1.5 mm² (AWG 16)				
Polycarbonat				
	Version: UL94HB approved			
for EE10-FTx version	Humidity / Temperature alternating Humidity			
EN61326-1 EN61326-2-3	CE			
working temperature range: storage temperature range:	-555°C (23131°F) -2560°C (-13140°F)			
	15 - 40 VDC or 24 VAC ±20% 28V DC > U _v > 10 + 0.02 x R _v (R _v < 5 for DC supply: typical 4 mA for AC supply: typical 15 mA _m screw terminals max. 1.5 mm² (AWG 10 Polycarbonat US Version: UL94V-0 approved / EU NIP30 for EE10-FTx version for EE10-Fx and EE10-FPx version EN61326-1 EN61326-2-3 working temperature range:			

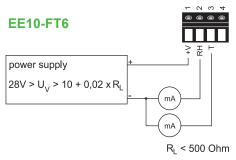
1) Please refer to the working range of the HC103

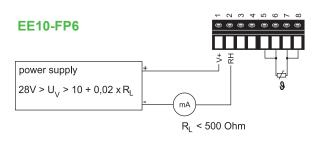


Connection Diagram -

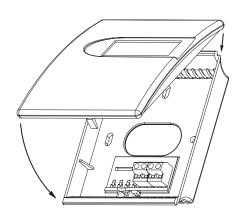








Dimensions (mm)



Housing colour: Cover: RAL 9003 (signal white)

Back: RAL 7035 (light grey)

Order Example

EE10-FT3-D04-T04

Model: humidity + temperature

Output humidity: 0-10V
Output temperature: 0-10V
Display: with display
T-Unit: °C
T-Scale: 0...50°C

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

Ordering Guide

MODEL	OUTPUT	T-SENSOR (only passive)		DISPLAY		HOUSING	T-UNIT	T-SCALE ¹⁾ (only for FT)	
humidity + temperature (FT)	0 - 10 V (3)	Pt 100 DIN A	(A)	without display	()	EU ()	°C ()	050	(T04)
humidity+temp. passive (FP)	4 - 20 mA (6)	Pt 1000 DIN A	(C)	with display	(D04)	US (US)	°F (E01)	-555	(T31)
								040	(T55)
								20120	(T15)
								32122	(T76)
								32132	(T96)
EE10-									

¹⁾ other scaling upon request

EE10

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