

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 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

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



Features

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

Technical Data _

Measuring Quantities

Relative Humidity						
Humidity sensor	HC103					
Analogue output 0100% RH			I _L < 1mA			
	4-20 mA (two wires)	R _⊥ < (U _v -10)	/0.02 < 500 Ohm			
	095 % RH					
Accuracy at 20°C (68°F) and U_v=24VDC	±2% RH (4060% RH)		090% 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 <	1mA			
	4-20 mA (two wires)	R_< (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°0	C (±0.72°F)			
Temperature (passive output)						
Type of T-Sensor	please see ordering guide					
eneral 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 _i (R _i < 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 16)					
Housing material	Polycarbonat					
0	US Version: UL94V-0 approved / EU Version: UL94HB approved					
Protection class	IP30					
Display	for EE10-FTx version		Humidity / Temperature alternating			
	for EE10-Fx and EE10-FF	^D x version	Humidity			
CE compatibility according	EN61326-1		ſ			
	EN61326-2-3		Ľ			
Temperature ranges	working temperature rang	ie:	-555°C (23131°F)			
- F	storage temperature rang					
1) Please refer to the working range of the HC103						

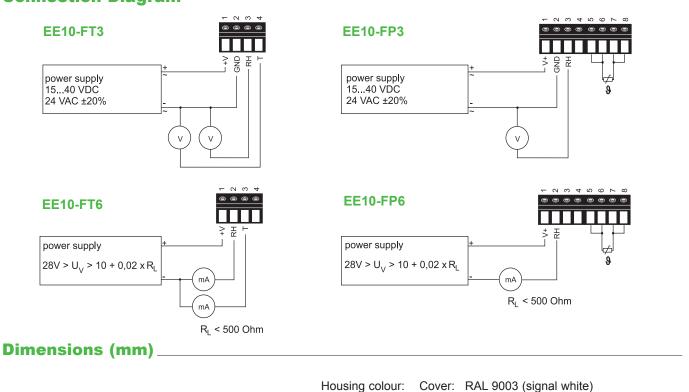
1) Please refer to the working range of the HC103

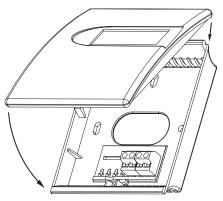


YOUR PARTNER IN SENSOR TECHNOLOGY

ELEKTRONIK®

Connection Diagram -





Back: RAL 7035 (light grey)

Order Example

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EE10-FT3-D04-T04

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

Ordering Guide_

EU: US:

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