

# EE10 Series

## HVAC Humidity and 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-ofthe-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 LCD display. For EE10-FT versions the displayed values for humidity and temperature will alternate.

### Typical Applications \_

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



#### **Features**

v2.0

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

#### Technical Data\_

#### Measuring Quantities

Humidity sensor	HC103							
Analogue output 0100 %r.H.	0-10 V -1 mA < I <sub>L</sub> < 1mA							
	4-20 mA (two wires) $R_L < (U_v-10)/0.02 < 500 \text{ Ohm}$							
Working range <sup>1)</sup>	095 %r.H.							
Accuracy at 20 degC and U <sub>v</sub> =24VDC	±2 %r.H. (4060%r.H.) ±3 %r.H. (1090 %r.H.)							
Temperature influence at 60%r.H.	typical 0.06 %r.H. / degC							
Temperature (active output)								
Analogue output 050 $\text{degC}^{_2)}$	0-10 V -1 mA < I <sub>L</sub> < 1mA							
	4-20 mA (two wires) $R_L < (U_v-10)/0.02 < 500 \text{ Ohm}$							
Accuracy at 20 degC and U <sub>v</sub> =24VDC	±0.25 degC (FT3) ±0.4 degC (FT6)							
Temperature (passive output)								
Type of T-Sensor	please see ordering guide							
eral Data								
Voltage supply (U <sub>v</sub> )								
for 0 - 10 V	15 - 40 VDC or 24 VAC ±20%							
for 4 - 20 mA	$28V > U_v > 10 + 0.02 \text{ x R}_L$ (R <sub>L</sub> < 500 Ohm)							
Current consumption	for DC supply: typical 4 mA							
	for AC supply: typical 15 mA <sub>eff</sub>							
Electrical connection	Screw terminals max. 1.5 mm <sup>2</sup>							
Display	for EE10-FTx version Humidity / Temperature alternating							
	for EE10-Fx and EE10-FPx version Humidity							
CE compatibility according	EN 50081-1							
	EN 50082-1							
	Working temperature range: -5+55 degC							
Temperature ranges								
Temperature ranges	Working temperature with display: -5+55 degC							

EE101



#### Connection Diagram\_



## Dimensions (mm) \_



W x H x D = 85 x 100 x 26

Housing: Protection class:	PC IP20	
Housing colour:		RAL 9003 (signal white) RAL 7035 (light grey)

(other colours upon request)

## \_Order Example

EE10-FP6D-D04

Model:

Output humidity: Output temperature: Display: Display: Humidity + Temperature Transmitter with passive T-output 4-20mA Pt 1000 DIN B with Display %RH

## Ordering Guide

MODEL		OUTPUT				T-SCALE (only for FT)		DISPLAY		T - UNIT (only for (D04))	
humidity + temperature humidity humidity + temperature passive	(FT) (F) (FP)	0-10V 4-20 mA		Pt 100 DIN A Pt 100 DIN B Pt 1000 DIN A Pt 1000 DIN B	~ ^	standard (050degC) other	() (Txx)	without display with display	() (D04)	°C °F	() (EE01)
EE10-											