**Digital CO2, Humidity and Temperature Sensor**

The EE850 sensor for CO2, humidity and temperature features now RS485 interface with Modbus or BACnet protocol.

(Engerwitzdorf, 16.01.2019) **The EE850 duct mount sensor from E+E Elektronik combines the CO2, relative humidity (RH) and temperature (T) measurement in a single device. The sensor can be easily integrated into a bus system via the RS485 interface (Modbus RTU or BACnet MS/TP). The 3-in-1 device is dedicated for building automation as well as for demanding process control.**

The EE850 features the E+E dual wavelength NDIR CO2 sensing cell, which is particularly insensitive to contamination. The CO2 auto-calibration and temperature compensation lead to high accuracy and long-term stability over the entire working range of 0…10,000 ppm CO2 and -20 °C to +60 °C (-4...140 °F).

The RH and T sensing element located inside the probe is optimally protected from dust, dirt and corrosion by the proprietary E+E coating. The coating improves the measurement performance and long-term stability in harsh environment by preventing stray impedances caused by deposits on the active sensor surface.

The CO2, RH and T measured data as well as the calculated dew point temperature (Td) are available on the RS485 interface with Modbus RTU or BACnet MS/TP protocol. Alternatively, the EE850 features current and voltage outputs. The digital interface provides also other parameters such as absolute humidity (dv), mixing ratio (r), water vapor partial pressure (e) or enthalpy (h).

Configuration and adjustment can be performed with an optional adapter and the free EE-PCS configuration software.

The functional enclosure facilitates mounting the EE850 with closed cover. This protects the electronics from construction site pollution during installation. A mounting flange is included in the scope of supply.

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**Images:**



*Digital EE850 transmitter for CO2, humidity and temperature from E+E Elektronik.*

Photos: E+E Elektronik GmbH, reprint free of charge

***E+E Elektronik*** *develops and manufactures sensors and transmitters for humidity, temperature, dew point, moisture in oil, air velocity, flow, CO2 and pressure. Data loggers, hand-held measuring devices and calibration systems complete the comprehensive product portfolio of the Austrian sensor specialist. The main applications for E+E products lie in HVAC, building automation, industrial process control and the automotive industry. A certified quality management system according to ISO 9001 and IATF 16949* *ensures the highest quality standards. E+E Elektronik has a worldwide dealership network and representative offices in Germany, France, Italy, Korea, China and the United States. The accredited E+E calibration laboratory (OEKD) has been commissioned by the Austrian Federal Office for Metrology (BEV) to provide the national standards for humidity and air velocity.*

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