

Temperature & Humidity/ Dew Point Transmitter

Introduction :

The ADP13 and ADP13 transmitters include high precision and stability sensors for measuring relative humidity and temperature. They are microprocessor based devices and, therefore, allow being entirely configured through an RS485 interface using the Modbus RTU command. The DigiConfig software allows the configuration of all transmitter features as well as its diagnostic procedure. The ADP13 model is intended for wall mounting while the ADP13 model is equipped with an elongated sensor rod for installation in ducts or through walls



Features :

The transmitter can be configured for displaying the values of measured Temperature and Relative Humidity, or the values of measured Temperature and Dew Point, or the values of measured Relative Humidity and Dew Point, or the value of measured Temperature only.

The communication parameters can be easily field-configured. The values for communication address, baud rate and parity can be changed using the frontal button without the need for using the configuration software.

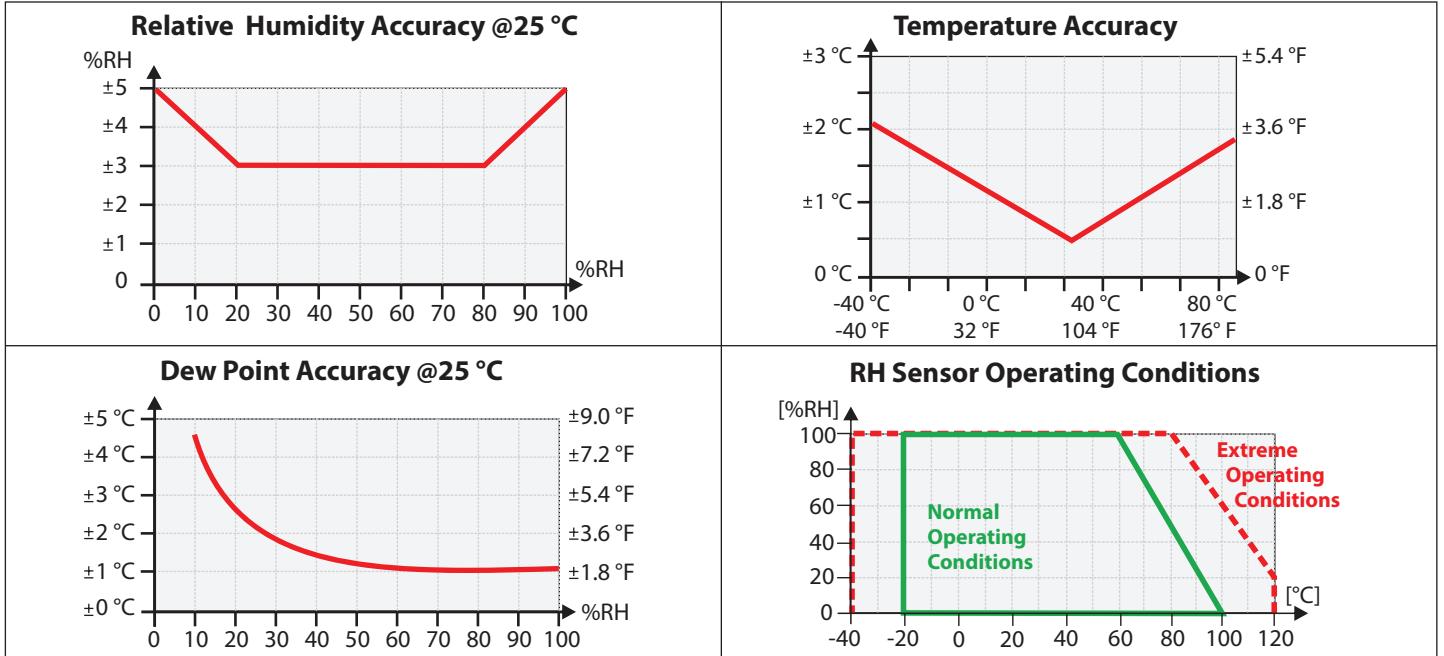
Performance Specifications:

Sensor measuring range	: Temperature: -40.0°C to 100.0°C (-40.0°F to 212.0°F) Relative Humidity (RH): 0.0 to 100.0 % RH Dew Point: -40.0°C and 100.0°C (-40.0°F to 212.0°F)
Measuring resolution	: Temperature: 0.1°C, 14 bits (16383 levels) Relative Humidity: 0.1 %, 12 bits (4095 levels)
Response time	: Temperature: up to 30 s in slow air movement Humidity: up to 8 s in smooth air movement (20 to 80%RH)
Measurement accuracy	: refer to figure
Interval between sampling	: 3 seconds
Power supply	: 12 Vdc to 30 Vdc
Protection class	: Electronic enclosure IP65;
Sensor capsule	: IP40
Dimensions	: 60 x 70 x 35 mm
Transmitter operation tempt	: from 0°C to 70°C
Electromagnetic compatibility	: EM 61326:2000
Polycarbonate enclosure	
Connection cable is included	



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Measuring Accuracy and Sensor Operational Limits



The sensor used in this equipment may be damaged or become out of calibration if it is exposed to chemical agents contaminated atmosphere. Hydrochloric Acid, Nitric Acid, Sulphuric Acid and Ammonia in high concentrations may damage the sensor. Acetone, Ethanol and Propylene Glycol may cause a reversible measurement error.

