

## **Bid Specification**

1 (1)

2019-04-18

## HMW92 Humidity and Temperature Transmitters for High Performance Building Automation Applications



## Features/Benefits:

- Exceptionally easy configuration, installation, and field adjustment
- Accuracy up to ±1.7%RH
- NIST traceable (calibration certificate included)
- Calculated humidity parameters: dew point, mixing ratio, enthalpy, wet bulb temperature and absolute humidity
- Field exchangeable calibrated measurement modules for easy maintenance
- HUMICAP180R for superior stability and reliability

## Summary:

Wall mounted transmitter shall incorporate a thin film polymer capacitive HUMICAP® relative humidity sensor. Accuracy shall be  $\pm$  1.7% RH for the 0 to 90% RH range and  $\pm$  2.5% RH for the 90 to 100% RH at +10 ... +40 °C (+50 ... +104 °F). Transmitter to be loop powered by 10 to 28 VDC (R<sub>L</sub> = 0 $\Omega$ ) or 20 to 28 VDC (R<sub>L</sub> = 500 $\Omega$ ), provide a linear output signal of 4 to 20 mA corresponding to 0 to 100% RH. Incorporates a digital temperature sensor that provides a linear output signal of 4 to 20 mA corresponding to -5° to 55°C (23° to 131°F). Accuracy to be  $\pm$ 0.2°C (0.36°F) at +20...+30 °C (+68 ... +86 °F). Shall have the option to calculate and output additional parameters: dew point, mixing ratio, enthalpy, absolute humidity, and wet bulb temperature. Transmitter shall have the ability to calibrate relative humidity, without disturbing operation, using a single point electronic field calibrator or have an interchangeable humidity and temperature module with a NIST traceable calibration for easy maintenance. NIST traceable calibration and certificate included.

Vaisala Model: HMW92 (Relative Humidity and Temperature)

Vaisala Model: HMW92D (Relative Humidity and Temperature with Display)

Vaisala Model: TMW92 (Temperature Only)

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