

Bid Specification

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HMW93 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 powered by 18 ... 35 VDC or 24 VAC and provide a linear output signal of 0...5V or 0...10V corresponding to 0 to 100% RH. Incorporates a digital temperature sensor that provides a linear output signal of 0 to 5V or 0 to 10V corresponding to -5° to 55°C (23° to 131°F). Accuracy to be \pm 0.2°C (0.36°F) at \pm 20... \pm 30 °C (\pm 68 ... \pm 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: HMW93 (Relative Humidity and Temperature)

Vaisala Model: HMW93D (Relative Humidity and Temperature with Display)

Vaisala Model: TMW93 (Temperature Only)

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