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HMW92 Humidity and Temperature Transmitters for High Performance Building Automation Applications



Features/Benefits:

- Exceptionally easy configuration, installation, and field adjustment
- Accuracy up to $\pm 1.7\%$ 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 $+10 \dots +40 \text{ }^\circ\text{C}$ ($+50 \dots +104 \text{ }^\circ\text{F}$). Transmitter to be loop powered by 10 to 28 VDC ($R_L = 0\Omega$) or 20 to 28 VDC ($R_L = 500\Omega$), 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 $\pm 0.2^\circ\text{C}$ (0.36°F) at $+20 \dots +30 \text{ }^\circ\text{C}$ ($+68 \dots +86 \text{ }^\circ\text{F}$). 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)