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HMW88 Humidity and Temperature Transmitter for Building Automation Applications



Features/Benefits:

- Reliable transmitters for basic HVAC humidity measurements
- ± 3.0 %RH accuracy
- Optimized for easy installation and low maintenance
- User exchangeable INTERCAP® sensor for easy field replacement
- Output parameters: relative humidity and temperature with optional dewpoint temperature, wet bulb temperature and enthalpy
- NEMA4 housing

Summary:

Wall mounted transmitters shall incorporate a thin film polymer capacitive INTERCAP® relative humidity sensor. Sensor to be interchangeable in the field and calibration free. Accuracy is $\pm 3\%$ RH from 0 and 90% RH and $\pm 5\%$ from 90 to 100% RH between $+10 \dots +30$ °C ($+50 \dots +86$ °F). Sensor to have a stability of $\pm 2\%$ RH over a two year period. Transmitter shall operate over a humidity range of 0...100%. Transmitter to be loop powered by 10... 28 VDC (at 0Ω load) or 20...28VDC (at 600Ω load) and provide a linear output signal of 4...20 mA corresponding to 0 to 100% RH. Temperature sensor shall be a platinum 1000Ω RTD with a linear output of 4...20 mA corresponding to -40° to $+60^\circ$ C

(-40° to $+140^\circ$ F) with an accuracy of $\pm 0.3^\circ$ C (0.54° F) at 20° C (68° F). Shall have options to calculate and output additional parameters: dew point temperature, wet bulb temperature, and enthalpy. Transmitter shall have a NEMA4 enclosure.

Vaisala Model: HMW88 (Relative Humidity and Temperature)

Vaisala Model: HMW88D (Relative Humidity and Temperature with Display)

Vaisala Model: HMW88TD (Dew point and Temperature)

Vaisala Model: HMW88W (Wet bulb and Temperature)

Vaisala Model: HMW88H (Enthalpy and Temperature)

Vaisala Model: TMW88 (Temperature Only)