

2019-04-18

HMW83 Humidity and Temperature Transmitters 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

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 70% RH and $\pm 5\%$ from 70 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 powered by 18...35 VDC or 24 VAC and provide a linear output signal of 0...10V corresponding to 0 to 100% RH. Temperature sensor shall be digital with a linear output of 0...10V corresponding to -5° to 55° C ($+23$ to $+131^{\circ}$ F) with an accuracy of $\pm 0.5^{\circ}$ C (0.9° F) at $+10 \dots +30$ °C ($+50$ °F ... $+86$ °F).

Vaisala Model: HMW83 (Relative Humidity and Temperature)

Vaisala Model: TMW83 (Temperature Only)