

HMW83 Humidity and Temperature Transmitters for Building Automation Applications



Features/Benefits:

- Reliable wall-mounted transmitter for basic HVAC humidity measurements
- Relative humidity measurement accuracy up to ± 3.0 %RH
- Temperature measurement accuracy up to ± 0.5 °C (± 0.9 °F)
- 3-wire, 0 ... 10 V output signals
- IP30 rated enclosure
- User exchangeable INTERCAP® sensor for easy field replacement; optimized for easy installation and low maintenance

Summary:

Wall-mounted transmitters shall incorporate a thin-film polymer capacitive INTERCAP® relative humidity sensor. Humidity sensor is to be calibration-free and interchangeable in the field.

Instrument must be able to measure 0 ... 100 %RH with accuracy of ± 3 %RH from 0 ... 70 %RH and ± 5 %RH from 70 ... 100 %RH between +10 ... +30 °C (+50 ... +86 °F). Humidity sensor must have a stability of at least ± 2 %RH over a two year period in typical HVAC applications.

Temperature sensor shall be digital with a linear output of 0 ... 10 V corresponding to -5 ... 55 °C (+23 ... +131 °F). Transmitter to be powered by 18 ... 35 VDC or 24 VAC ± 20 % 50/60 Hz and provide a linear output signal of 0 ... 10 V corresponding to 0 ... 100 %RH. Available models are listed below:

Vaisala Model: HMW83 (Relative Humidity and Dry-Bulb Temperature)

Vaisala Model: TMW83 (Dry-Bulb Temperature Only)