HMD83 Humidity and Temperature Duct Mount 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 dew point temperature, wet bulb temperature and enthalpy

Summary:

Duct 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 ±3% RH from 0 and 90% RH and ±5% from 90 to 100% RH between +10 ... +30 °C (+50 ... +86 °F). Sensor to have a stability of ±2% RH over a two year period. Transmitter shall operate over a humidity range of 0...100%. Transmitter to be powered by 18...35VDC or 24 VAC and provide a linear output signal of 0...10V corresponding to 0 to 100% RH. Temperature sensor shall be a platinum 1000Ω RTD with a linear output of 0...10V corresponding to -40° to +60°C (+40° to +140°F) with an accuracy of ±0.3°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.

Vaisala Model: HMD83 (Relative Humidity and Temperature)
Vaisala Model: HMD83D (Relative Humidity and Temperature with Display)
Vaisala Model: TMD83 (Temperature Only)

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