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## HMW89 Humidity and Temperature Transmitter for Building Automation Applications



### Features/Benefits:

- Reliable transmitters for basic HVAC humidity measurements
- $\pm 3.0$  %RH accuracy
- Optimized for easy installation and low maintenance
- User exchangeable INTERCAP<sup>®</sup> sensor for easy field replacement
- Output parameters: relative humidity and temperature with optional dew point temperature, wet bulb temperature and enthalpy
- NEMA4 housing

### Summary:

Wall mounted transmitters shall incorporate a thin film polymer capacitive INTERCAP<sup>®</sup> 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 ... +30 °C (+50 ... +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...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 1000 $\Omega$  RTD with a linear output of 0...10V corresponding to -40° to +60°C (+40° to +140°F) with an accuracy of  $\pm 0.3^\circ\text{C}$  (0.54° F) at 20°C (68°F). Have options to calculate and output additional parameters: dew point temperature, wet bulb temperature, and enthalpy. Transmitter shall have a NEMA4 enclosure.

Vaisala Model: HMW89 (Relative Humidity and Temperature)

Vaisala Model: HMW89D (Relative Humidity and Temperature with Display)