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## HMW93 Humidity and Temperature Transmitters for High Performance Building Automation Applications



### Features/Benefits:

- Exceptionally easy configuration, installation, and field adjustment
- Accuracy up to  $\pm 1.7\%RH$
- NIST traceable (calibration certificate included)
- Calculated humidity parameters: dew point, mixing ratio, enthalpy, wet bulb temperature and absolute humidity
- Field exchangeable calibrated measurement modules for easy maintenance
- HUMICAP180R for superior stability and reliability

### Summary:

Wall mounted transmitter shall incorporate a thin film polymer capacitive HUMICAP® relative humidity sensor. Accuracy shall be  $\pm 1.7\% RH$  for the 0 to 90% RH range and  $\pm 2.5\% RH$  for the 90 to 100% RH at  $+10 \dots +40 \text{ }^\circ\text{C}$  ( $+50 \dots +104 \text{ }^\circ\text{F}$ ). Transmitter to be powered by 18 ... 35 VDC or 24 VAC and provide a linear output signal of 0...5V or 0...10V corresponding to 0 to 100% RH. Incorporates a digital temperature sensor that provides a linear output signal of 0 to 5V or 0 to 10V corresponding to  $-5^\circ$  to  $55^\circ\text{C}$  ( $23^\circ$  to  $131^\circ\text{F}$ ). Accuracy to be  $\pm 0.2^\circ\text{C}$  ( $0.36^\circ\text{F}$ ) at  $+20 \dots +30 \text{ }^\circ\text{C}$  ( $+68 \dots +86 \text{ }^\circ\text{F}$ ). Shall have the option to calculate and output additional parameters: dew point, mixing ratio, enthalpy, absolute humidity, and wet bulb temperature. Transmitter shall have the ability to calibrate relative humidity, without disturbing operation, using a single point electronic field calibrator or have an interchangeable humidity and temperature module with a NIST traceable calibration for easy maintenance. NIST traceable calibration and certificate included.

Vaisala Model: HMW93 (Relative Humidity and Temperature)

Vaisala Model: HMW93D (Relative Humidity and Temperature with Display)

Vaisala Model: TMW93 (Temperature Only)