

HMW82 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)
- Loop powered, 4 ... 20 mA 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 (or Pt100 if using HMW82P100 model) with a linear output of 4 ... 20 mA corresponding -5 °C to 55 °C (+23 ... +131 °F). Transmitter is to be loop powered by 10 ... 28 VDC (at 0 Ω load) or 20 ... 28 VDC (at 600 Ω load) and provide a linear output signal of 4 ... 20 mA corresponding to 0 ... 100% RH. Available models are listed below:

UUACXY. HMW82 (Relative Humidity and Dry-Bulb Temperature)

UUACXY. TMW82 (Dry-Bulb Temperature Only)

UUACXY. HMW82P100 (Relative Humidity and Dry-Bulb Temperature with additional Pt100 temperature sensor)