Outdoor Humidity and Temperature Instruments

/ A WIDE PRODUCT SELECTION TO SUIT ALL OUTDOOR APPLICATIONS

VAISALA

Selecting the right humidity and temperature transmitter for your outdoor application can often be challenging. Some options to consider are accuracy, output signal, operating temperature range, installation, maintenance, and price. Vaisala offers a variety of instruments to suit your needs and budget. From demanding meteorological environments to energy management systems, Vaisala transmitters are engineered to withstand all outdoor conditions without compromising performance and reliability.

High Accuracy Transmitters: ±1% Relative Humidity

NIST Traceable – Certificate Included

HMT333 Humidity and Temperature Transmitter

- Designed for precise humidity and temperature measurements
- Additional humidity parameters available (dew point temperature, wet bulb temperature, absolute humidity, mixing ratio, and enthalpy)
- Compatible with Solar Radiation Shield DTR502B
- Recommended applications: cooling towers, energy management applications, turbine inlet and anti-icing monitoring

HMT337 Humidity and Temperature Transmitter for High Humidity Applications

- Designed for near-condensing conditions: Available with a warmed probe and additional temperature sensor
- Additional humidity parameters available (dew point temperature, wet bulb temperature, absolute humidity, mixing ratio, and enthalpy)
- Compatible with HMT330MIK Meteorological Installation Kit and Solar Radiation Shields DTR502B and DTR13
- Recommended applications: demanding meteorological monitoring, inlet air and anti-icing monitoring for gas turbines

PTU307 Combined Pressure, Humidity and Temperature Transmitter for High Humidity Applications

- Designed for near-condensing conditions: Available with a warmed probe and additional temperature sensor
- Barometric pressure and additional humidity parameters available (dew point temperature, wet bulb temperature, absolute humidity, mixing ratio, and enthalpy)
- Compatible with HMT330MIK Meteorological Installation Kit and Solar Radiation Shields DTR502B and DTR13
- Recommended applications: demanding meteorological monitoring, high precision cooling tower applications

HMT363 Intrinsically Safe Humidity and Temperature Transmitter

- Designed for direct installation in explosive areas (FM, CSA, ATEX)
- Resistant to flammable gases and dust
- Additional humidity parameters available (dew point temperature, mixing ratio, absolute humidity, and wet bulb temperature)
- Compatible with Solar Radiation Shield DTR502B
- Recommended applications: inlet air and anti-icing monitoring for gas turbines

HMP155 Humidity and Temperature Probe

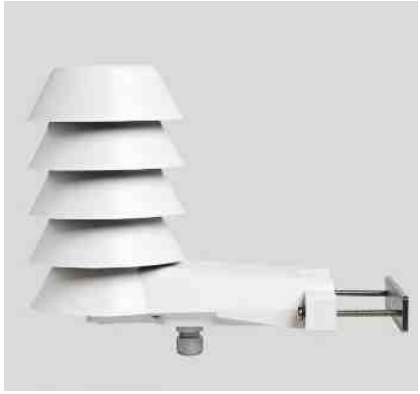
- Compact design with weather proof IP66 housing
- Available with a warmed probe and additional temperature sensor
- Compatible with Solar Radiation Shields DTR503A and DTR13
- Recommended application: demanding meteorological monitoring

Mid-Accuracy Transmitters: ±2% Relative Humidity

NIST Traceable – Certificate Included

HMT120 and HMT130 Humidity and Temperature Transmitters

- Designed for moderate humidity and temperature conditions
- Field replaceable probe
- Additional humidity parameters available (dew point temperature, wet bulb temperature, absolute humidity, mixing ratio, and enthalpy)
- Compatible with Solar Radiation Shield DTR504
- Recommended applications: cooling towers, energy management applications, greenhouse weather



HMS110 Series Humidity and Temperature Transmitters

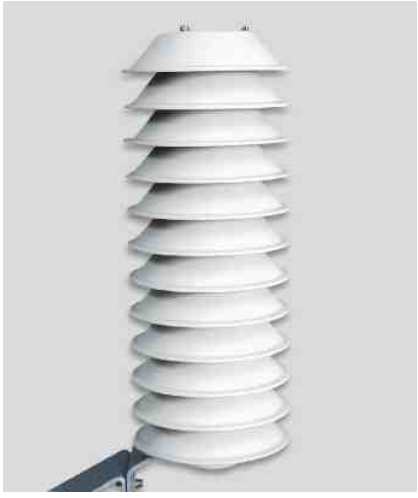
- Designed with an integrated solar radiation shield
- Additional humidity parameters available (dew point temperature, wet bulb temperature, and enthalpy)
- Optimized for easy installation and maintenance
- Recommended applications: cooling towers, energy management applications, greenhouse weather

Basic Transmitters: ±3% Relative Humidity

HMS80 Series Humidity and Temperature Transmitters

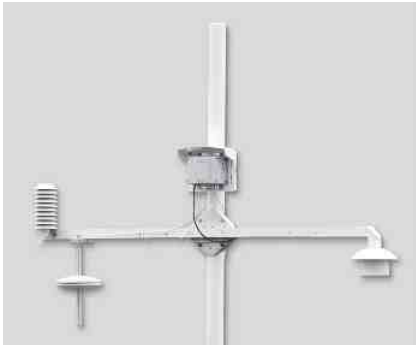
- Designed with an integrated solar radiation shield
- Additional humidity parameters available (dew point temperature, wet bulb temperature, and enthalpy)
- Optimized for easy installation and maintenance
- Field replaceable sensor
- Recommended applications: energy management applications, greenhouse weather, agriculture

Installation Accessories



DTR500 Series Solar Radiation and Precipitation Shields

- Maintenance-free shield to protect humidity and temperature probe from solar radiation and precipitation
- White outer surface reflects radiation; black inner surface absorbs accumulated heat
- Flexible installation on vertical pole, horizontal beam, or flat surface
- Recommended for all outdoor installations



HMT330MIK Meteorological Installation Kit

- Outdoor installation kit for meteorological applications
- Available with shields to protect transmitter, relative humidity probe and additional temperature probe
- Compatible with HMT337, PTU307, and SPH 10/20 Static Pressure Head for improved barometric pressure accuracy
- Recommended application: demanding meteorological monitoring

View Vaisala's comprehensive humidity instrument offering at www.vaisala.com/humidity.

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