

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. Fortunately, 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: $\pm 1\%$ Relative Humidity



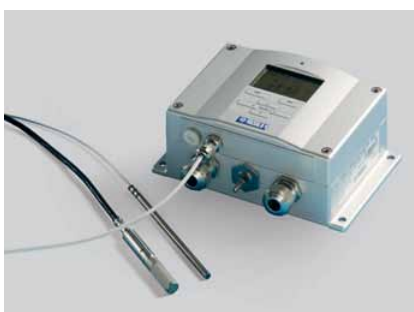
HMT333 Humidity and Temperature Transmitter

- Designed for moderate humidity and temperature conditions.
- Additional humidity parameters available (dew point, 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

- Available with a warmed probe and additional temperature sensor.
- Designed for near-condensing conditions.
- Additional humidity parameters available (dew point, 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

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



HMT363 Intrinsically Safe Humidity and Temperature Transmitter

- Designed for direct installation in explosive areas.
- Resistant to flammable gases or dust.
- Additional humidity parameters available (dew point, 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 applications: demanding meteorological monitoring, aviation and road weather.

Mid-Accuracy Transmitters: $\pm 2\%$ Relative Humidity



HMT120 and HMT130 Humidity and Temperature Transmitters

- Designed for moderate humidity and temperature conditions.
- Field replaceable probe.
- Additional humidity parameters available (dew point, wet bulb temperature, absolute humidity, mixing ratio, and enthalpy).
- Compatible with Solar Radiation Shields DTR502B and DTR504.
- Recommended applications: cooling towers, energy management applications, greenhouse weather.



HMD60UO/YO Outdoor Humidity and Temperature Transmitters

- Designed for moderate humidity and temperature conditions.
- Compatible with Solar Radiation Shield DTR503B.
- Recommended applications: energy management applications, greenhouse weather.



HMP110 Humidity and Temperature Probe

- Compact design with rugged IP65 housing.
- Field replaceable probe.
- Optional dew point output.
- Compatible with Solar Radiation Shield DTR504.
- Recommended applications: energy management applications, greenhouse weather.

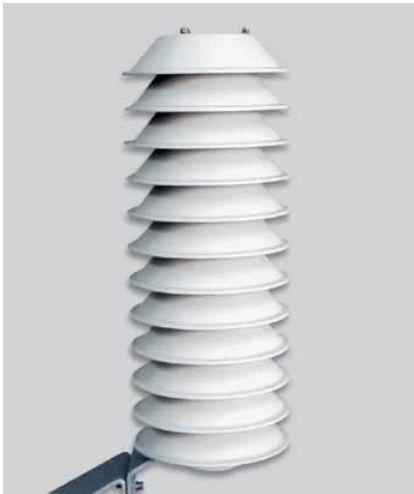
Economy Transmitters: $\pm 3\%$ Relative Humidity



HMP60 Humidity and Temperature Probe

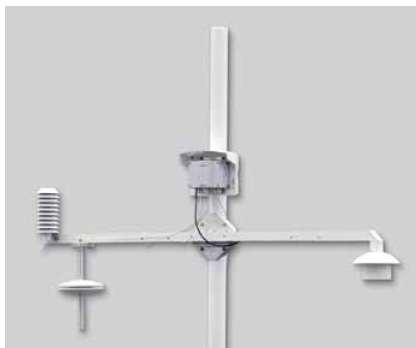
- Compact design with rugged IP65 housing.
- Field replaceable sensor.
- Optional dew point output.
- Compatible with Solar Radiation Shield DTR504.
- Recommended applications: energy management applications, greenhouse weather.

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 either 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.

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