

HMT330 Series Humidity and Temperature Transmitters for demanding humidity measurement



The HMT330 transmitter family has the solution for demanding industrial humidity measurements.

Features/Benefits

- Six models for demanding industrial applications
- Full 0 ... 100 % RH measurement, temperature range up to +180 °C (+356 °F) (depending on model)
- Pressure tolerance up to 100 bar (depending on model)
- Next generation Vaisala HUMICAP® Sensor for excellent accuracy and stability
- Graphical display of measurement trends and over four-year history
- Multilingual user interface
- Excellent performance in harsh chemical concentrations
- Corrosion resistant IP65 housing
- NIST traceable (certificate included)
- Analog outputs, WLAN/LAN

The Vaisala HUMICAP® Humidity and Temperature Transmitter Series HMT330 is designed for demanding industrial applications where stable measurement and wide customization is important.

Vaisala HUMICAP® performance

The HMT330 series incorporates Vaisala's 30 years of experience in industrial humidity measurement. An updated, even more stable and chemical resistant HUMICAP® sensor is available, next to the proven reliable and accurate sensor.

Chemical purge minimizes effects of contaminants

In environments with high concentrations of chemicals and cleaning agents, chemical purge helps to maintain measurement accuracy between calibration intervals.

Chemical purge involves heating the sensor to remove harmful chemicals. The function can be initiated

manually or programmed to occur at set intervals.

Graphical display of history and measurement trends

The HMT330 can be ordered with a large numerical and graphical display, which allows the user to clearly monitor operational data, measurement trends and 1-year measurement history. The optional data logger with real-time clock makes it possible to generate over four years of measured history, and zoom in on any desired time or time frame. The battery backup of the clock guarantees a reliable logging of measured data.

The display alarm allows tracking of any measured parameter, with a freely configurable low and high limit.

Data collection and (wireless) transfer to PC

The recorded measurement data can be viewed on the display or transferred to a PC with Microsoft Windows® software. The transmitter can also be connected to a network with an optional (W)LAN interface, which enables a (wireless) Ethernet connection. A USB-RJ45 cable makes it easy to connect the service port of the HMT330 to a PC.

Many ways to install and versatile outputs

Mains and DC power options, and several mounting accessories make the instrument easy to install.

The HMT330 can have up to three analog outputs. Isolated galvanic power supply and analog outputs are also available. For serial interface the USB connection, RS232 and RS485 can be used.

Flexible calibration

The HMT330 instruments are calibrated at six humidity points at the factory. A quick, one-point field calibration can be performed with

the hand-held HM70 meter. A two-point calibration can be performed with the HMK15 salt bath calibrator in a controlled environment. The transmitter can be sent to Vaisala for

recalibration. Accredited calibrations and maintenance contracts are also available.

| HMT331 wall mount | |
|--|--|
| Temperature measurement range | -40 ... +60 °C (-40 ... +140 °F) |
| Applications | Demanding HVAC and condition monitoring applications such as cleanrooms, pharmaceutical processes, greenhouses, swimming halls, museums, archives, engine rooms, and storages. |
| Installation options | Transmitter body is wall mounted. DIN RAIL Installation kit. Installation Kit for Pole or Pipeline (+ Rain Shield). Probe holder plate for short cable probe. |
| HMT333 remote cable, small probe | |
| Temperature measurement range | -40...+80 °C (-40...+176 °F) or -40...+120 °C (-40...+248 °F) depending on probe |
| Applications | Where a small remote probe is needed, and processes of moderate temperature. Cleanrooms, pharmaceutical processes, greenhouses and environmental chambers. |
| Installation options | Transmitter body is wall mounted. Variety of probe cable lengths available. Duct mount, channels and through walls using duct installation kit. Radiation shield DTR502B for outdoors. DIN RAIL Installation kit. Installation Kit for Pole or Pipeline (+ Rain Shield). |
| HMT334 remote cable, pressure probe | |
| Temperature measurement range | -70...+180 °C (-94...+356 °F) Operating pressure 0 ... 100 bar |
| Applications | For pressurised spaces and vacuum chambers. Test chambers. |
| Installation options | Transmitter body is wall mounted. Variety of probe cable lengths available. Pressure and vacuum-tight fittings. DIN RAIL Installation kit. Installation Kit for Pole or Pipeline (+ Rain Shield). |
| HMT335 remote cable, high temperature probe | |
| Temperature measurement range | -70...+180 °C (-94...+356 °F) |
| Applications | For duct measurement in hot processes. |
| Installation options | Transmitter body is wall mounted. Variety of probe cable lengths available. DIN RAIL Installation kit. Installation Kit for Pole or Pipeline (+ Rain Shield). |
| HMT337 remote cable, small, vapor tight probe | |
| Temperature measurement range | -70...+180 °C (-94...+356 °F) |
| Applications | For high humidity applications in industry and meteorology. The warmed probe is suitable for conditions close to condensation and for dew point measurement, and with the optional extra temperature probe, for relative humidity measurement. |
| Installation options | Transmitter body is wall mounted. Variety of probe cable lengths available. Swagelok fittings for installation in processes. Duct installation kit. Meteorological installation kit. DIN RAIL Installation kit. Installation Kit for Pole or Pipeline (+ Rain Shield). |
| HMT338 remote cable, ball valve probe | |
| Temperature measurement range | -70...+180 °C (-94...+356 °F) Operating pressure 0 ... 40 bar |
| Applications | For pressurised pipelines. Can be installed and removed via a ball-valve while process is running; hot-tapping is possible up to 10bars, this means that there is no need to vent or lower the process pressure. |
| Installation options | Transmitter body is wall mounted. Variety of probe cable lengths available. Ball-valve set and pressure-tight fittings. Two probe lengths available. DIN RAIL Installation kit. Installation Kit for Pole or Pipeline (+ Rain Shield). |



TYPE APPROVED PRODUCT
CERTIFICATE NO.: A-11440

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