

HMT330MIK Meteorological Installation Kit



The HMT337 and PTU307 feature warmed probe technology. Installed with the HMT330MIK kit either one forms the right choice for reliable humidity measurement in humid weather conditions.

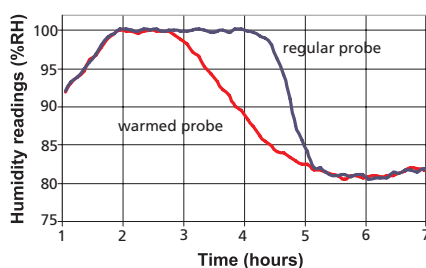
The Vaisala Meteorological Installation Kit HMT330MIK enables the Vaisala HUMICAP® Humidity and Temperature Transmitter HMT337 to be installed outdoors to obtain reliable measurements for meteorological purposes.

True humidity readings in condensing conditions

In weather observations dew formation makes reliable humidity measurement difficult. When dew has formed on the humidity sensor, it is impossible to obtain a true reading until this dew evaporates.

Both the PTU307 and HMT337 avoid this problem by warming the probe. When warmed, the relative humidity inside the probe stays below the ambient level. With an accurate temperature measurement, the ambient dewpoint can be calculated precisely. To obtain the ambient relative humidity, an additional probe measures the ambient temperature,

and the transmitter calculates the relative humidity from the dewpoint and temperature values.



After a period of 100 % relative humidity, the warmed probe measures the true humidity, whereas the non-warmed probe takes time to recover from the condensation.

Open shield prevents microclimates

The warmed humidity probe of the HMT337 / PTU307 is mounted in a shield which is open at the bottom to ensure steady air circulation to the sensor even in calm weather.

In traditional radiation shields sleet

Features/Benefits

- For outdoor humidity and temperature measurements
- Can be ordered in a variety of configurations
- Used together with HMT337 transmitter or PTU307
- Vaisala SPH 10/20 Static Pressure Head eliminates effectively pressure variations in the barometer caused by wind

HMT337 / PTU307 Features

- Warmed probe provides true humidity readings in condensing conditions
- Humidity measurement expressed as relative humidity and/or dewpoint temperature
- Easy field calibration with the HM70 hand-held meter

or snow can accumulate on the shield and prevent the proper air circulation through the shield, and create a humid microclimate until the snow melts.

Essential for critical weather measurements

Obtaining a true humidity reading is particularly important e.g. in traffic safety: at airports and at sea as well as on the roads. It is essential, for example, in fog and frost prediction.

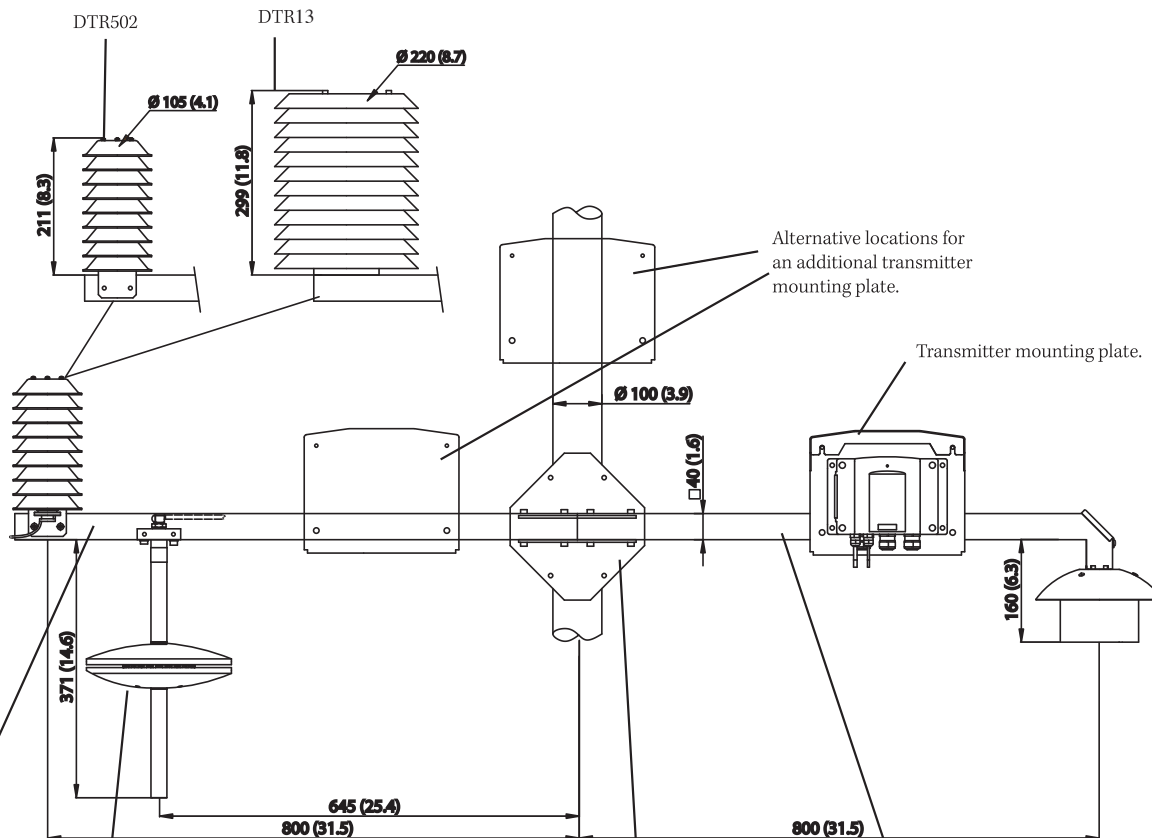


For calibration, a portable HMP77 reference probe is easy to attach beside the HMT337 or PTU307 probe.

Dimensions

Dimensions in mm (inches).

Radiation shield options:



When Static pressure head (SPH10/20) is in use, the transmitter has to be installed to the pole mast. An airtight connection between the transmitter and the Static pressure head is made with a pressure hose. To prevent the condensed water from blocking the hose as it freezes, make sure that the hose won't hang loose.

Alternative locations for an additional transmitter mounting plate.

Transmitter mounting plate.

Pole mounting plate for support bars.

Support bar & shield for heated T_d probe (transmitter mounting plate included in the option).

Support bar & radiation shield for additional T probe or for non-heated RH probe or T_d probe.

Order form

Vaisala Meteorological Installation Kit		HMT330MIK			
Support bar & shield for warmed T _d probe	No support bar & shield for warmed T _d probe Support bar, transmitter mounting plate & shield for warmed T _d probe	0 1			
Support bar and radiation shield for additional T probe or for non-warmed RH or T _d probe	No support bar or radiation shield Support bar with DTR502 shield for T probe Support bar with DTR13 shield for T probe Support bar with DTR502 shield for non-warmed RH or T _d probe Support bar with DTR13 shield for non-warmed RH or T _d probe		A B C D E		
Support bar mounting plate	No mounting plate Pole mounting plate for support bar/bars	0 1			
Additional transmitter mounting plate	No additional transmitter mounting plate Transmitter mounting plate for support bar assembly Transmitter mounting plate for pole assembly		A B C		
Static Pressure Head	No Static Pressure Head Static Pressure Head SPH10				0 1

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