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HMT330MIK Meteorological Installation Kit

The PTU307 with warmed probe installed with the HMT330MIK kit is the right choice for reliable humidity measurement in humid weather conditions.

Features/Benefits

- For outdoor humidity and temperature measurements
- Many configurations
- Used together with the HMT337 & PTU307 transmitters
- Vaisala SPH10 Static Pressure Head eliminates effectively pressure variations in the barometer caused by wind

HMT337 & PTU307 features:

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

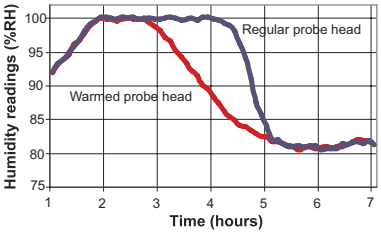
With the Vaisala Meteorological Installation Kit HMT330MIK you can install the Vaisala HUMICAP® Humidity and Temperature Transmitter HMT337 and the Vaisala Combined Pressure, Humidity and Temperature Transmitter PTU307 outdoors to obtain reliable meteorological measurements.

True humidity readings in condensation

In weather observations, it is difficult to measure humidity reliably because of dew formation. When dew has formed on the humidity sensor, a true reading can be obtained only after dew is evaporated.

The HMT337 and PTU307 prevent dew from forming on the sensor by warming the sensor head. When the head is warmed, the relative humidity inside the sensor head stays below the ambient level. With an accurate temperature measurement, the ambient dewpoint can be calculated accurately.

To obtain the ambient relative humidity, an additional probe measures the ambient temperature, and the transmitter calculates the 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 sensor head of the HMT337 and PTU307 are 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 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.

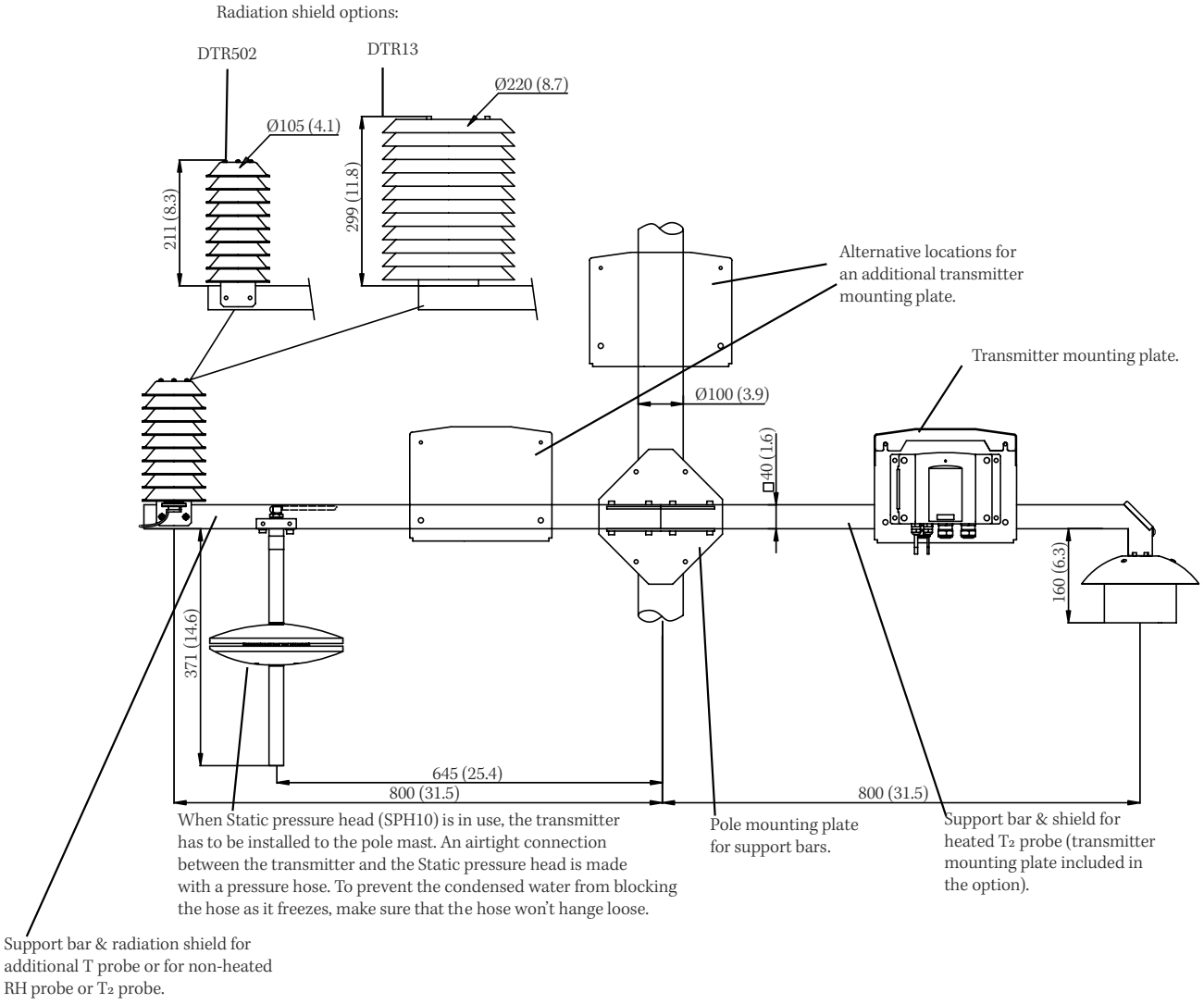
Essential for critical weather measurements

Obtaining a true humidity reading is particularly important, forexample, in traffic safety: at airports and at sea as well as on roads. It is also essential in fog and frost prediction.

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

Dimensions

Dimensions in mm (inches)



Order form

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

Example of a typical order code: 1 C 1 A 0

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