



MUIR MATHESON
WEATHER MONITORING

HMP 155

Temperature Humidity Probe



The HMP155 combined temperature and humidity probe is particularly suited for humidity measurement at weather stations. It is very reliable, with a high tolerance to chemicals and intensive dust, and is easily serviced and calibrated. The probe head and filter can be easily removed and replaced and it has low power consumption. The HMP155 is especially designed for use in meteorological applications, such as synoptic and hydrological weather stations, aviation, and road weather. It is also suitable in a wide range of instrumentation, for example, recorders, data loggers, and laboratory equipment and monitoring. The probe should be installed in a radiation Shield or Stevenson Screen to prevent artificial heating of the sensors.

Manufacturer

Vaisala

Type

HMP155 Humidity and Temperature Probe

Measurement Ranges

0....100%RH (Relative Humidity)

-80....+60°C {-112...+140°F} (Temperature Measurement)

Accuracy at +15...+25°C
Accuracy at +20°C

±1%RH (0-90%), ±1.7% RH (90-100%RH) for humidity,
±0.17°C (voltage), ±0.12°C (RS485) for Temperature

Operating Environment

Temperature for operation -80....+60°C {-112...+140°F}
Temperature for storage -40....+80°C {-112...+140°F}

Inputs and Outputs

7...28VDC

<4mA

Without DAT12 -0 to 1V for humidity, 4 wire

resistive (PT100) for temperature

with DAT 12-2 Channel 4 to 20mA

Power Consumption

Output

Cable Length

3.5m, 10m and 30m.

Weight

86g (including package)

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