

HVAC80

LASER INFRARED HYGRO-THERMOMETER

The meter designed for the professional HVAC/R engineer



air temperature and humidity measurement



dew point calculate in seconds



wet bulb calculate in seconds

HVAC80 measures Air Temperature, Air Humidity and Surface Temperature, calculates Dew Point and Wet Bulb just in seconds

OPTIONAL ACCESSORIES

HVAC80 complete set



Easy Humidity Calibration



RS232 Interface for Data Acquisition & Analysis Software



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LASER INFRARED HYGRO-THERMOMETER



Specifications :

Air Temperature Range :
-20 to 50°C (-4 to 122°F)
RH% Range :
0 to 99.9 % RH
Wet Bulb Range :
-21.6 to 49.9°C (-6.88 to 122°F)
Dew Point Range :
-68 to 49.9°C (-90.4 to 122°F)
IR Temperature Range :
-40 to 500°C (-40 to 932°F)
Response Time : 0.5 sec (IR sensing)
Size : H175xD50xW70 mm
Power : 4x1.5V AAA battery

Accuracy :

Air Temp. : 0.6°C (1°F)
RH % : ±3% at 10 to 90% RH,
others ± 5%
IR Temp. : ±2% or ±2 °C at -20 to 450°C
others ± 3% or ± 3°C

Features :

Distance to Spot : 8 : 1
Emissivity adjustable : 0.3 to 0.99
Laser Sighting : Single Point
Standard Acc. : Hard Case, Batteries,
Cert. of Product Conformance, Warranty Card
Optional Acc. :
AC/DC Adaptor, RS232 Cable w/ Software,
Calibration Salt Bottles (33% and 75%),
Calibration Certificate

UNIQUE METER DESIGN WITH 3 HVAC/R PARAMETERS IN ONE

FAQ

HVAC/R

01. What is HVAC/R?
 HVAC/R stands for Heating Ventilating Air Conditioning/Refrigerating
02. What do you normally measure in HVAC/R application?
 Air temperature (°C/°F), Relative humidity (% RH), dew point (°C/°F), wet bulb (°C/°F), air flow, air pressure and electrical units.
03. What is a relative humidity and why is it in %?
 Because it is a ratio of the quantity of water vapour present in the air to the maximum possible water vapour at the same temperature.
04. What is a Dew Point (DP)?
 Dew Point is that temperature where gas being cooled begins to condensate water vapour into liquid or temperature at which humidity reach 100%.
05. What is a Hygrometer?
 It is an instrument to measure relative humidity
06. What is a humidity?
 Simply the amount of water vapour in the air.
07. What is the typical relative humidity in the Sahara desert? How about in Australia?
 10% to 20% in Sahara and 50% to 70% in Australia when the weather is dry.
08. What is a Sling Psychrometer
 Sling Psychrometer is the simplest model of hygrometer. It consist of 2 thermometer (one Dry and other Wet thermometer) mounted together with a handle attached on a swing chain.
09. What is the special features if CONSTANT HVAC 80 (IR Hygrometer)?
 HVAC 80 is an all-in-one HVAC/R instrument that can measure RH, Surface Temperature (Infra Red), Dew Point, Wet Bulb, Air Temperature in one single tool.

