



DH500™ Hygro-Thermometer



- ✓ Measure relative humidity (%RH) from 5.0 to 95 %RH
- ✓ Calculated Dew Point reading
- ✓ Temp measurements from -20° to 80° C standard
- ✓ Optional Temp probe providing measurement from -95° to 200° C
- ✓ Protective rubber boot & splash-proof option
- ✓ Long battery life of over 150 hours
- ✓ Analog voltage output and Communication options
- ✓ Low power, high performance, RISC microprocessor
- ✓ Intuitive user interface design

The Pacer DH500 Hygro-Thermometer is a high quality instrument providing highly accurate humidity and temperature measurements in a variety of environments via a user-friendly & intuitive interface. Applications include manufacturing, laboratory, computer rooms, environmental control, flow hood monitoring, and many other applications where precise air measurement is required.

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DH500™ Hygro-Thermometer

SPECIFICATIONS

Ranges

Relative Humidity (%RH)
5.0 to 95.0 %RH

Temperature (using standard combination HTP201 probe):
-4° to 176°F (-20° to 80°C)

Temperature (using optional temperature probe):
-139° to 392°F (-95° to 200°C)

Dew Point: Calculated for full range of HTP201 probe

Accuracy

Temperature: $\pm(0.3^{\circ}\text{C} + 0.2\%$ of reading in $^{\circ}\text{C}$)
Temperature accuracy examples: $\pm 0.3^{\circ}\text{C}$ at 20°C
 $\pm 0.5^{\circ}\text{F}$ at 68°F

Relative Humidity: ± 2.0 %RH

Dew Point: $\pm 1.1^{\circ}\text{C}$ ($\pm 2.0^{\circ}\text{F}$)

Resolution

Temperature: 0.1°F or $^{\circ}\text{C}$ (1°F below -99.9°F)

Relative Humidity: 0.1 %RH

Response Time

Relative Humidity: Up to 90% of change in measured value in 15 seconds

Temperature: Approx. 60 sec in still air
Approx. 10 sec in moving air streams

Display

0.5" LCD, 4 digits, with LED backlight

Operating Temp

Instrument: 32° to 125°F / 0° to 50°C

HTP201 Probe: -4° to 176°F / -20° to 80°C

Power Supply

3 AA alkaline batteries

Battery Life

Approximately 150 hours

Dimensions

Instrument: 6.5 inch X 3.25 inch X 1.5 inch

RH/Temp probe: 6 inch x 1 inch diameter

Instrument Options Available

- Protective Rubber Boot and Splash-Proof Seal
- USB communications
- RS232 communications
- Analog 0-5 Volt output
- Custom cable lengths
- Immersion RTD temperature probe
- Surface RTD temperature probe
- Air RTD temperature probe

DH500 comes complete with

- 1 pc. HTP201 combination RH / temp probe
- 3 pc. AA 1.5 V alkaline batteries
- 1 pc. carrying case PN 6002



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