



# DH500<sup>TM</sup>

## 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 probes providing measurement from -100° to 600°C
- ✓ Protective rubber boot & splash-proof option
- ✓ Long battery life of over 150 hours
- ✓ Analog voltage output and USB or RS232 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 HTP202 probe):

-4° to 176°F (-20° to 80°C)

Temperature (using optional temperature probes):

-148° to 1112°F (-100° to 600°C)

Dew Point: Calculated for full range of HTP202 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  $20^{\circ}\text{C}$   
 $\pm 0.5^{\circ}\text{F}$  at  $68^{\circ}\text{F}$

Relative Humidity:  $\pm 2.0$  %RH

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

### Resolution

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

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:  $32^{\circ}$  to  $125^{\circ}\text{F}$  /  $0^{\circ}$  to  $50^{\circ}\text{C}$

HTP202 Probe:  $-4^{\circ}$  to  $176^{\circ}\text{F}$  /  $-20^{\circ}$  to  $80^{\circ}\text{C}$

### 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 or RS232 communications
- Analog 0-5 Volt output
- Custom extension cables (Note: May affect temp. readings)
- Immersion and Penetration RTD temperature probes
- Surface RTD temperature probe
- Air RTD temperature probe

### DH500 comes complete with

- 1 pc. HTP202 combo RH / Temp probe  
Note: cable attached to AP100 probe
- 3 pc. AA 1.5 V alkaline batteries
- 1 pc. hard carrying case and manual
- NIST-Traceable Calibration Certificate



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