

Humidity-Temperature Meter with Excel-Formatted Data Logging SD Card

Accurately Measures Temperature and Relative Humidity of a Fluid Including Dew Point/Wet-Bulb Temperature of Ambient Air



No. DTH3007SD

Applications:

- HVAC/R installations
- Horticulture



Rooftop HVAC System



Horticulture

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	A	B	C	D	E	F	G
	Place	Date	Time	Value	Unit	Value	Unit
1	2	1.2009452	184858	53.8	9000	29.5	Degrees
2	3	2.2009452	184900	53.8	9000	29.5	Degrees
3	4	3.2009452	184900	53.8	9000	29.5	Degrees
4	5	4.2009452	184905	53.8	9000	29.5	Degrees
5	6	5.2009452	184907	53.7	9000	29.5	Degrees
6	7	6.2009452	184909	53.7	9000	29.5	Degrees
7	8	7.2009452	184911	66.1	9000	29.5	Degrees
8	9	8.2009452	184913	76.7	9000	29.6	Degrees
9	10	9.2009452	184915	75.9	9000	29.6	Degrees
10	11	10.2009452	184917	66.8	9000	29.7	Degrees
11	12	11.2009452	184919	65.2	9000	29.7	Degrees
12	13	12.2009452	184921	98.5	9000	29.6	Degrees
13	14	13.2009452	184923	56	9000	29.9	Degrees
14	15	14.2009452	184925	55	9000	29.6	Degrees
15	16	15.2009452	184927	54.6	9000	29.8	Degrees
16	17	16.2009452	184929	54.4	9000	29.5	Degrees
17	18	17.2009452	184931	54.3	9000	29.5	Degrees





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Features:

- Four-function instrument measures temperature/humidity, dew point, wet-bulb temperature and surface temperature
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

Included Accessories:

- Soft carrying case
- Temperature-humidity probe
- 2 GB SD memory card
- User's manual

Optional Accessories:

- Hard carrying case
- 9VDC adapter for 110V power supply (General P/N AC1)
- "K" Type thermocouples:
 - General P/N TPK500 (-50° to 500°F)
 - General P/N TPK05 (-40° to 562°F)
 - General P/N TPK03 (-40° to 950°F)
- SDRD1 - SD Card Reader



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Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Temperature, relative humidity (R.H.), dew point, wet-bulb temperature

Measurement Range:

- For temperature: 32° to 122°F (0° to 50°C)
- For R.H.: 5 to 95%
- For dew point: -13.5° to 120.1°F (-25.3° to 48.9°C)
- For wet-bulb temperature: -6.9° to 122°F (-21.6° to 50°C)

Measurement Accuracy:

- $\pm 1.5^\circ\text{F}$ ($\pm 0.8^\circ\text{C}$) for temperature
- Sum of temperature and humidity accuracies for dew point and wet-bulb temperature

Measurement Resolution:

- 0.1° (F or C) for temperature and humidity

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:

- 3.5 mADC (normal operation, with backlight off and SD card not saving data)
- 28 mADC with backlight on and card saving data
- 40 mADC with backlight on and card saving data

Dimensions of Meter:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Power Source:

Six "AA" batteries or optional 9-VDC AC adapter

