



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

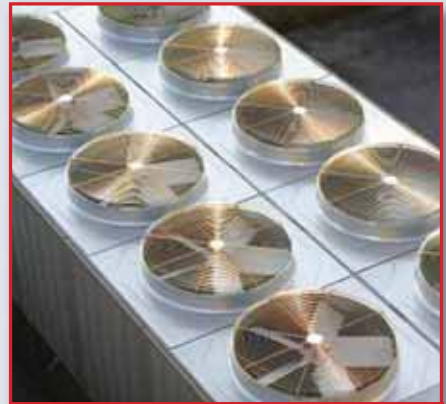
**Accurately Measures Temperature and Relative Humidity of a Fluid Including Dew Point/Wet-Bulb Temperature of Ambient Air**



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

**Patented Technology**

Time	Date	Time	Value	Unit	Value	Unit
1	2009/4/23	10:45:28	53.0	%RH	29.5	Degree C
2	2009/4/23	10:46:03	53.0	%RH	29.5	Degree C
3	2009/4/23	10:46:38	53.0	%RH	29.5	Degree C
4	2009/4/23	10:47:13	53.0	%RH	29.5	Degree C
5	2009/4/23	10:47:47	53.7	%RH	29.5	Degree C
6	2009/4/23	10:48:22	53.7	%RH	29.5	Degree C
7	2009/4/23	10:48:57	60.2	%RH	29.5	Degree C
8	2009/4/23	10:49:31	76.7	%RH	29.6	Degree C
9	2009/4/23	10:49:55	75.9	%RH	29.6	Degree C
10	2009/4/23	10:50:17	66.8	%RH	29.7	Degree C
11	2009/4/23	10:50:39	63.2	%RH	29.6	Degree C
12	2009/4/23	10:51:01	58.5	%RH	29.6	Degree C
13	2009/4/23	10:51:23	56	%RH	29.6	Degree C
14	2009/4/23	10:51:45	55	%RH	29.6	Degree C
15	2009/4/23	10:52:07	54.6	%RH	29.5	Degree C
16	2009/4/23	10:52:29	54.4	%RH	29.5	Degree C
17	2009/4/23	10:53:01	54.3	%RH	29.5	Degree C

Typical Excel Data



Typical Excel Plotted Data

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

## 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



No. DTH3007SD

## 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



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