

GENERAL®

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



1	Place	Date	Time	Value	Unit	Value	Unit
1		1	2009/4/23	10:45:28	53.8 °RH	29.5	Degree C
2		2	2009/4/23	10:46:01	53.8 °RH	29.5	Degree C
3		3	2009/4/23	10:46:40	53.8 °RH	29.5	Degree C
4		4	2009/4/23	10:46:55	53.8 °RH	29.5	Degree C
5		5	2009/4/23	10:46:57	53.7 °RH	29.5	Degree C
6		6	2009/4/23	10:46:59	53.7 °RH	29.5	Degree C
7		7	2009/4/23	10:46:11	66.2 °RH	29.5	Degree C
8		8	2009/4/23	10:46:13	76.7 °RH	29.6	Degree C
9		9	2009/4/23	10:46:15	75.9 °RH	29.6	Degree C
10		10	2009/4/23	10:46:17	66.8 °RH	29.7	Degree C
11		11	2009/4/23	10:46:19	63.2 °RH	29.6	Degree C
12		12	2009/4/23	10:46:21	58.5 °RH	29.6	Degree C
13		13	2009/4/23	10:46:23	56 °RH	29.6	Degree C
14		14	2009/4/23	10:46:25	55 °RH	29.6	Degree C
15		15	2009/4/23	10:46:27	54.6 °RH	29.5	Degree C
16		16	2009/4/23	10:46:29	54.4 °RH	29.5	Degree C
17		17	2009/4/23	10:46:31	54.3 °RH	29.5	Degree C





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

