

Data Logging Thermo-Hygrometer

Model R6050SD



Features

 Measures relative humidity, ambient temperature and dew point/wet bulb temperatures

Contact temperature measurement with a type J/K thermocouple option

• Temperature is measured in °C or °F

• Real time data logger with integrated SD memory card

• User selectable sampling rate from 1 to 3600 seconds

• Easy-to-read backlit LCD display

• Data hold and Min/Max functions

• Tripod mount for long-term monitoring

· Low battery indicator and auto shut off

Includes humidity/temperature probe, soft carrying case & batteries

Specifications

Temperature

Measuring Range: 32 to 122°F (O to 50°C)

Accuracy: $\pm 1.5^{\circ}F$ (0.8°C) Resolution: $0.1^{\circ}F/^{\circ}C$

Contact Temperature (Probe sold separately)

Measuring Range: Type K: -148 to 2372°F

 $(-100 \text{ to } 1300^{\circ}\text{C})$ Type J: -148 to 2192°F

(-100 to 1200°C)

Accuracy: $\geq -58^{\circ}\text{F} (-50^{\circ}\text{C}) \pm (0.4\% + 1^{\circ}\text{F} (0.5^{\circ}\text{C}))$

 \leq -58°F (-50°C) ±(0.4% + 1.8°F (1°C))

Resolution: 0.1°F/°C

Dew Point

Measuring Range: -13.5 to 120.1°F

(-25.5 to 48.9°C)

Accuracy: Sum of temp and RH accuracy

Resolution: 0.1°F/°C

Wet Bulb

Measuring Range: -6.9 to 122.0°F (-21.6 to 50.0°C)
Accuracy: Sum of temp and RH accuracy

Resolution: 0.1°F/°C

Humidity

Measuring Range: 5 to 95% RH

Accuracy: ±(3% rdg. + 1% RH): ≥70% RH

±3% RH. < 70% RH

Resolution: 0.1% RH

General Specifications

Display: Dual Display, LCD

Backlit Display: Yes
Data Hold: Yes
Min: Yes
Max: Yes

TECHNICAL DATA



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TECHNICAL DATA



Datalogging Capabilities: Yes

Real-Time Clock and

Date Stamp: Yes

Sampling Rate: Yes (1, 2, 5, 10, 30, 60, 120,

300, 600, 1800, 3600 seconds)

External Memory: Yes, expandable up to 16GB

with SD card (optional)

Auto Shut-off: Yes (after 10 minutes/off)

Kick Stand: Yes
Tripod Mountable: Yes
Low Battery Indicator: Yes

Power Supply: 6 x AA batteries or

AC Adapter (optional)

Data Output: Yes (RS-232)

Battery Life: Sampling Time Dependent

Product Certifications: CE

Operating Temperature: 32 to 122°F (O to 50°C) Storage Temperature: 14 to 140°F (-10 to 60°C)

Operating Humidity

Range: 10 to 80%

Dimensions: 7 x 2.7 x 1.9" (177 x 68 x 45mm)

Weight: 1.13lb (515g)

R6050SD-KIT

Data Logging Thermo-Hygrometer with Power Adapter and SD Card

Includes: R6050SD Data Logging

Thermo-Hygrometer, RSD-16GB 16GB Micro SD Memory Card with adapter and RSD-ADP-NA

AC Power Adapter







Model	Description
R6050SD	Data Logging Thermo-Hygrometer
R9933	Humidity Standard, 33%
R9975	Humidity Standard, 75%
R9980	Humidity Standard, 33% and 75%
R6050SD-PROBE	Replacement Probe for R6050SD
R2920	Surface Thermocouple Probe
R2930	Right Angle Thermocouple Probe
R2940	Air/Gas Thermocouple Probe
R2950	Immersion Thermocouple Probe
R2960	Needle Tip Thermocouple Probe
TP-01	Beaded Thermocouple
R1500	Tripod
RSD-ADP-NA	Power Supply, 110V
RSD-ADP-EU	Power Supply, 220V
CA-05A	Soft Carrying Case
R8888	Hard Carrying Case
SD-4GB	4GB Class 4 SDHC Memory Card
RSD-16GB	16GB Micro SD Memory Card w/Adapter
R6050SD-KIT	Data Logging Thermo-Hygrometer with Power Adapter and SD Card
R6050SD-NIST	Data Logging Thermo-Hygrometer with NIST