Handheld Thermometer/ Hygrometer Data Logger

OMEGA™
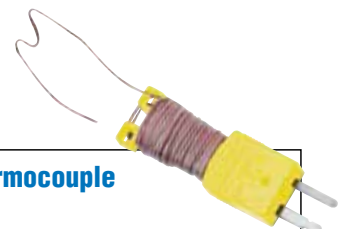
RHXL3SD

1 YEAR WARRANTY CE

- ✔ **2 GB SD Card Included**
- ✔ **Temperature/ Humidity Probe**
- ✔ **SD Card, Real Time Data Logger (Temperature/ Humidity Only)**
- ✔ **Large Backlit Dual LCD Display**
- ✔ **MAX/MIN/HOLD Function**
- ✔ **Dew Point Measurement (Display Only)**
- ✔ **Wet Bulb Temperature (Display Only)**
- ✔ **J/K Thermocouple Input**
- ✔ **Auto Power Off Feature**
- ✔ **USB Cable or RS232 Cable (Optional)**

RHXL3SD

2GB-SD card, included.

The RHXL3SD comes with a temperature-humidity probe that is used to make the first three types of measurement. Surface temperature measurements are made using an optional Type K or J thermocouple.

Several features and capabilities enhance the RHXL3SD's versatility. Among them are automatic temperature compensation for dew point, wet-bulb and thermocouple measurements; the ability to hold readings and display maximum and minimum readings; and an automatic power off function that extends battery life. Because it is microprocessor-based, the RHXL3SD can make full use of the portability, reliability and large storage capacities that SD memory cards offer. Measurements can be made automatically at any sampling rate between one second and one hour. After the instrument time-stamps and stores the measurements (temperature and humidity only) on an SD card

plugged into it, the user can remove the card and plug it into a laptop or desktop computer either directly or via a USB card reader. The logged data is stored on the card as files that can be opened by Microsoft's Excel application. Unit accepts SD memory cards as large as 16 GB.

The RHXL3SD has a backlit 2½" diagonal display and is powered by 6 "AA" alkaline batteries or an optional AC adaptor.

Free Thermocouple Included!

These models include a free 1 m (40") Type K insulated beaded wire thermocouple with subminiature connector and wire spool caddy (1 per channel). **Order a Spare! Model No. SC-TT-K-30-36.**

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All items included and shown smaller than actual size.

Temperature and humidity probe.

Type K thermocouple.

Soft carrying case.

RHXL3SD

2 GB SD card with case.

SPECIFICATIONS

Display Type: LCD with green backlight
Display Size: 52 x 38 mm (2.05 x 1.5")
Parameters Measured: Temperature, relative humidity (RH) (dew point and wet-bulb temperature, display only)
Measurement Range:
  RH (Probe): 5 to 95%
  Temperature (Probe): 0 to 50°C (32 to 122°F)
  RH 5 to 95% for Dew Point:
  -25.3 to 48.9°C (-13.5 to 120.1°F)
  Wet-Bulb Temperature:
  -21.6 to 50°C (-6.9 to 122°F)
Measurement Accuracy: ±0.8°C (±1.5°F) for temperature, ≥ 70% RH: ± (3% rdg + 1% RH), < 70% RH: ± 3% RH, sum of temperature and humidity accuracies for dew point and wet bulb temperature
Measurement Resolution: 0.1° (°F or °C) for temperature and humidity
Thermocouple Input Ranges and Accuracy:
  Type K:
  -50 to 1300°C (±0.4% + 0.5°C)
  -50.1 to -100°C (±0.4% + 1°C)
  -58 to 2372°F (±0.4% + 1°F)
  -58.1 to -148°F (±0.4% + 1.8°F)
  Type J:
  -50 to 1200°C (±0.4% + 0.5°C)
  -50.1 to -100°C (±0.4% + 1°C)
  -58 to 2192°F (±0.4% + 1°F)
  -58.1 to -148°F (±0.4% + 1.8°F)

Display Update: 1 second
Sampling Time Options: 0, 1, 2, 5, 10, 30, 60, 120, 300, 600, 1800 or 3600 seconds (0 seconds to 1 hour)
Storable/Recallable Readings: Max, min SD card capacity 1 to 16 GB
Operating Temperature: 0 to 50°C (32 to 122°F)
Operating Relative Humidity: 0 to 85%
Power Supply: 6 alkaline "AA" batteries (included) or optional 9 Vdc AC adaptor

Power Consumption: 3.5 mA DC (normal operation, with backlight off and SD card not saving data); 28 mA DC with backlight on and card saving data; 40 mA DC with backlight on and card saving data
Dimensions:
  Meter: 177 H x 68 W x 45 mm D (7.0 x 2.7 x 1.9")
  Sensor Probe: 14.2 x 200 mm (0.56 x 7.87")
  Cable Length: 1 m (40")
Weight: 489 g (1.08 lb)

To Order

Model No.	Description
RHXL3SD	Handheld thermometer/hygrometer data logger

Accessories

Model No.	Description
2GB-SD	Spare 2 GB SD card
ADAPTER-SD	AC power adaptor
RS232-SD	Spare RS232 interface cable
USB-SD	Spare USB interface cable
HC-SD	Hard carrying case

Comes complete with probe, 2 GB SD card, 6 "AA" batteries, soft carrying case, Type K thermocouple and operator's manual.
Ordering Example: RHXL3SD, *handheld thermometer/hygrometer data logger.*