Handheld Thermometer/ Hygrometer Data Logger

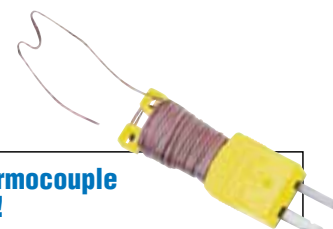## RHXL3SD

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)**
- ✔ **Windows Software (Optional)**

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

RHXL3SD

2GB-SD card, included.

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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NEW

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 50ºC (32 to 122ºF)
RH 5 to 95% for Dew Point: -25.3 to 48.9ºC (-13.5 to 120.1ºF)
Wet-Bulb Temperature: -21.6 to 50ºC (-6.9 to 122ºF)

Measurement Accuracy: ±0.8ºC (±1.5ºF) 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° (ºF or ºC) for temperature and humidity

Thermocouple Input Ranges and Accuracy:
Type K:
-50 to 1300ºC (±0.4% + 0.5ºC)
-50.1 to -100ºC (±0.4% + 1ºC)
-58 to 2372ºF (±0.4% + 1ºF)
-58.1 to -148ºF (±0.4% + 1.8ºF)
Type J:
-50 to 1200ºC (±0.4% + 0.5ºC)
-50.1 to -100ºC (±0.4% + 1ºC)
-58 to 2192ºF (±0.4% + 1ºF)
-58.1 to -148ºF (±0.4% + 1.8ºF)

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 50ºC (32 to 122ºF)

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)

OMEGACARE℠ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE℠ covers parts, labor and equivalent loaners.

To Order *Visit omega.com/rhxl3sd for Pricing and Details*

Model No.	Description
RHXL3SD	Handheld thermometer/hygrometer data logger

Accessories

Model No.	Description
2GB-SD	Spare 2 GB SD card
SW-U101-WIN	Data acquisition software, with USB and RS232 cables
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.*
OCW-3, *OMEGACARE℠ extends standard 1-year warranty to a total of 4 years.*

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Your One-Stop Source for Process Measurement and Control!

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• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters