

Pocket Size Temperature/ Humidity Handheld Data Logger

RH32 Series



Optional

- ✓ ±2% RH Accuracy
- ✓ Logs Up to 8000 Readings (Both Temperature and Humidity)
- ✓ 3 Types of Sensors: Built-in, Probe Type and Miniature Separate Sensor
- ✓ Sensors Interchangeable
- ✓ Min/Max and Average
- ✓ High and Low Alarms
- ✓ Optional Software
- ✓ RS232C or RS485 Communication Standard
- ✓ Reads Humidity or Dewpoint Temperature



RH32B-C2 shown actual size.

The reliable and accurate RH32 Series Temperature/Relative Humidity Meters measure and display both temperature from -10 to 50°C (14 to 122°F) and humidity from 0 to 100% RH. It has the datalogging capability to store up to 8000 readings of both temperature and humidity into memory. The data can be stored either manually or automatically from once a minute to once an hour over a specified time period entered in calendar time (month/day/hour/minute).

Three types of sensors are available: a built-in sensor, a small separate sensor and a probe type sensors. The model comes with 1 type of sensor when purchased, but all sensors can plug into the units and are easily interchangeable without special calibration.

RS232C communication interface is available along with optional software for analysis of measured data. The software allows for easy

transfer of data to a computer either in real time or of data stored in memory. A trend graph can be displayed on the computer screen. The data can also be exported to a spreadsheet.

The RS485 communication allows up to 30 units to be connected to a computer for real-time temperature/humidity measurement applications.

Specifications

Relative Humidity:

Sensor: Capacitance type

Measuring Range: 0 to 100% RH

Accuracy Rating: ±2% RH [0 to 90% RH and 25°C (76°F)], ±3% RH [90 to 95% RH and 25°C (76°F)]

Temperature Coefficient: ±0.1% RH/°C [5 to 80°C (41 to 176°F)]

Response Time: Within 15 seconds (90% response, 25°C constant, under 0.1 m/s ventilation)

Temperature:

Sensor: Semiconductor type temperature sensor

Measuring Range:

RH32B: -10 to 50°C (14 to 122°F),

RH32S and RH32P: -40 to 80°C (-40 to 176°F)

Accuracy: ±0.5°C (±0.9°F)

0 to 50°C (32 to 120°F); ±1°C (±1.8°F) below 0°C (32°F) or above 50°C (120°F)

Sensor Interchangeability:

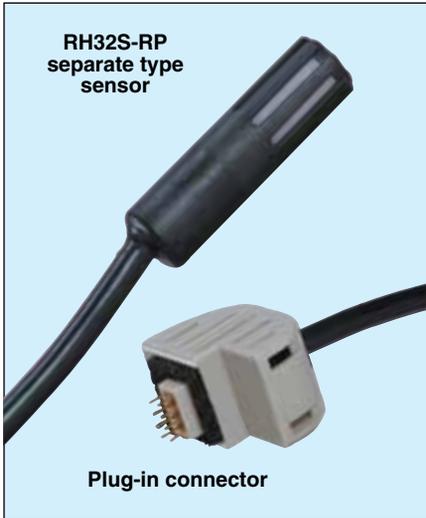
Interchangeable by plug-in; for probe type and separate type, interchangeable including cable

Power Supply: 2 "AA" batteries (included) or 100 to 240 Vac with optional AC adaptor

Display:

Current Data: Month, day, hour, minute; temperature reading (°C or °F); relative humidity or dew-point temperature reading (°C or °F)

Logged Data: Parameters; logged data at each year, month, day, hour, or minute; maximum temperature/humidity, minimum temperature/humidity, average temperature/humidity, totalized temperature



Meter and optional accessories,
shown smaller than actual size.

To Order		
Model No.	Sensor Type	Communications
RH32B-C2	Built-in	RS232C
RH32B-C4	Built-in	RS485
RH32S-C2	Miniature separate type	RS232C
RH32S-C4	Miniature separate type	RS485
RH32P-C2	Probe type	RS232C
RH32P-C4	Probe type	RS485

Accessories

Model No.	Description
CAL-3-HU	NIST-traceable calibration
RH32B-RP	Plug in replacement built-in sensor
RH32S-RP	Plug in replacement miniature separate sensor
RH32P-RP	Plug in replacement probe type sensor
RH32-SW1	Software, RS232C, download and real-time
RH32-SW2	Software, RS485 multipoint, real-time only
RH32-AC110	AC power adaptor (recommended when using RS485)
RH32-S2-CABLE	2 m (7') RS232C cable
RH32-S4-CABLE	2 m (7') RS485 cable

Comes complete with sensor and two "AA" batteries.

Note: Software, cable, and AC power adaptor sold separately.

Ordering Examples: RH32B-C2, with built-in RS232C, RH32-SW1, software and RH32-S2-CABLE, cable. RH32P-C2, probe type.

Programmable Set Up Parameters:

Clock, temperature °C/°F, humidity or dewpoint, logging start/stop time, high/low alarm, auto power off, keylock

Logging Repetition: None, daily, or weekly

Measurement Interval:
Continuous or 1 to 60 min

Number of Logged Data Points:
Temperature/humidity: up to 8000 points each, total 16,000 points (EEPROM)

Communications Function:
RS232C or RS485

Dimensions: 64 W x 113 H x 32 mm D
(2.5 x 4.5 x 1.2")

Weight: 140 g (0.30 lb)