

Handheld Hygro Thermometer Data Logger

RH318



No Points Standard

- ✓ Thermistor Sensor for Temperature Measurement, Fast Response Time
- ✓ Large Backlit Dual LCD Display, MAX/MIN/HOLD Function
- ✓ Dew Point Measurement
- ✓ 16,000 Record Data Logger
- ✓ USB Cable Included, RS232 Cable (Optional)
- ✓ Interchangeable Probes
- ✓ Windows® Software
- ✓ Auto Power Off
- ✓ Low Battery Indicator
- ✓ Tilt Stand Included

The RH318 is a low cost, high performance handheld meter with data logging ability. It offers a large dual back-lit display to show the temperature and humidity from a handheld probe and can display a dew point measurement. The temperature/humidity probe uses a semiconductor and polymer capacitive sensor and a thermistor temperature sensor. Windows® based software and USB interface cable is included to allow real time or recorded data to be read by a PC through the USB/RS232 port (RS232 interface cable is optional). Probe can extend up to 1.5 m (5') with optional extension cable.



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

Specifications

Sensor Type: Electronic capacitance polymer film sensor/NTC

Relative Humidity Range:

0 to 100% RH

Temperature Range: -20 to 60°C (-4 to 140°F)

Dew Point Temperature Range: -20 to 60°C (-4 to 140°F)

Resolution: 0.1% RH, 0.1°C, 0.1°F

Accuracy Probe (RH318-RP):

<10% RH, >90% RH ±4.0% RH

10% RH to 90% RH ±2.0% RH

-20 to 60°C (-4 to 140°F) ±0.8°C (±1.5°F)

Response Time (In Slow Moving Air):

Humidity: 180 s

Temperature: 10 s

Sensor Hysteresis: <1.5% RH

Temperature Coefficient:

0.1 x (specified accuracy) per 1°C

(<23°C or >23°C)

Sample Rate: Two times per second

Battery Type: 9V battery (included)

Battery Lifetime: Approximately 80 hours (alkaline battery)

AC Adaptor (Optional): 9 Vdc (8 to 10 Vdc maximum)

Operation Temperature: 0 to 40°C (32 to 104°F)

Operation Humidity: 10 to 90% RH

Storage Temperature: -10 to 60°C (14 to 140°F)

Storage Humidity: 10 to 75% RH

Dimensions

Meter: 185 L x 65 W x 36 mm H (7.3 x 2.6 x 1.4")

Probe: 15 D x 94 mm L (0.6 x 3.7")

Weight: Approximately 285 g (10 oz)



RH318.

Environment Conditions:

Altitude: Up to 2000 m (6562')

Relative Humidity: 90% maximum

Operation Ambient Temperature: 0 to 40°C (32 to 104°F)

To Order

Model No.	Description
RH318	Handheld hygro thermometer data logger

Accessories

Model No.	Description
RH318-RP	Replacement probe
RH318-EXT	Extension cable 1.5 m (5')
HH300-ADAPTOR	Power adaptor, 115 Vac
HH300-CABLE	RS232 interface cable
HH300A-CABLE-USB	Spare USB interface cable

Comes complete with probe, NIST calibration, USB interface cable, Windows® software, carrying case, tilt stand, 9V battery, and operator's manual.

Ordering Example: RH318, handheld hygro thermometer data logger. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years.