

Conservation Logger

Product Specifications

Type: Four-Channel Temperature, RH and 0-5 VDC (2x)

GENERAL SPECIFICATIONS

Size: 107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight: 110 grams (3.75 ounces)
Case Material: Noryl® plastic
Battery: 3.6 volt Lithium
Resolution: 12-bit (1 part in 4096)
Mounting: Magnetic backing or lock eyelet
Clock Accuracy: +/- 2 seconds per day
Sampling Methods: Continuous (First-in, First-out)*, Stop When Full (Fill-then-stop)
**Not available with sample rates faster than eight seconds*
Operating Limits: -40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements: IBM PC or 100% compatible with at least one free serial port, 2 MB of RAM memory, and 2 MB of hard disk space
Software Requirements: TrendReader® Standard (compatible with Windows® 3.1, 95, 98, Me, NT, 2000, and XP)

Memory Size: 128KB (capable of storing 87,000 readings)
Sampling Rates: User selectable rates from 25 per second to once every eight hours (BP-101 battery pack or PS-201 power supply required for sampling rates faster than eight seconds)
Number of Channels: Four (one for the internal temperature sensor, one for the internal RH sensor, and the remaining two channels are reserved for external sensors with 0-5 VDC output)

SENSOR SPECIFICATIONS

Temperature Sensor: NTC Thermistor
Range: -40 to 70°C (-40 to 158°F)
Accuracy: +/- 0.2°C from 0 to 70°C; +/- 0.5°C from -40 to 0°C
 (+/- 0.36°F from 32 to 160°F; +/- 0.9°F from -40 to 32°F)
Resolution: 0.03°C at 25°C (0.05°F at 77°F); better than 0.07°C (0.12°F) between -25 and 70°C (-13 and 158°F); better than 0.13°C (0.23°F) between -40 and -25°C (-40 and -13°F)
RH Sensor: Capacitive thin polymer film
Range: 0 to 95% RH
Accuracy: +/- 3% RH from 10 to 90% (-20 to 40°C [-4 to 104°F])
Resolution: Better than 0.04% between 25 and 60% RH at 25°C (77°F)
External Sensors (2):
Range: Any 2 sensors with a 0-5 VDC output

The Conservation Logger is a self-contained temperature and relative humidity logger with two external channels for use with a variety of sensors. It is equipped with an LED light that will alert the user if measurements fall above or below user set limits.



WARRANTY

Internal Battery: 5 Years
Data Logger: 3 Years

APPLICATIONS

Monitoring indoor air quality, conserving and/or preserving precious artifacts and paintings*
 (*when combined with a light sensor)

Model#: Conservation Logger
Cat#: 01-0133