

# Conservation Logger

## Product Specifications

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

### GENERAL SPECIFICATIONS

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



### WARRANTY

<b>Internal Battery:</b>	<b>5 Years</b>
<b>Data Logger:</b>	<b>3 Years</b>

### APPLICATIONS

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

<b>Memory Size:</b>	128KB (capable of storing 87,000 readings)
<b>Sampling Rates:</b>	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)
<b>Number of Channels:</b>	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

<b>Temperature Sensor:</b>	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)
<b>RH Sensor:</b>	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)
<b>External Sensors (2):</b>	
Range:	Any 2 sensors with a 0-5 VDC output

<b>Model#:</b>	<b>Cat#:</b>
Conservation Logger	01-0133

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.