



## Conservation Logger

### Four-Channel Temperature, Relative Humidity and 0-5 VDC (2X) Data Logger

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.

#### APPLICATIONS

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

#### GENERAL SPECIFICATIONS

Size:	107mm x 74mm x 22mm (4.2" x 2.9" x 0.9")
Weight:	110 g (3.75 oz)
Case Material:	Noryl® Plastic
Battery:	3.6 volt Lithium, 1 Amp-Hour
Resolution:	12-bit (1 part in 4096)
Mounting:	Magnetic backing or locking eyelet
Clock Accuracy:	± 2 seconds per day
Sampling Methods:	Continuous (First-in First-out)*, Stop When Full (Fill-then-stop) <i>*Not available with sample rates faster than eight seconds.</i>
Operating Limits:	-40°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements:	Windows PC with at least one free USB or serial port (depending on interface)
Software Requirements:	TrendReader® 2 (Compatible with Windows 2000 SP4, XP SP1 and Vista 32 bit)
Memory Size:	128 KB (capable of storing up to 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

##### Internal Temperature Sensor

Type:	NTC Thermistor
Range:	-40°C to 70°C (-40°F to 158°F)
Accuracy:	±0.2°C over the range of 0 to 70°C (± 0.3°F over the range of 32 to 158°F)
Resolution:	0.03°C (0.05°F) @ 25°C; better than 0.07°C (0.12°F) between -25°C and 70°C (-13°F and 158°F); better than 0.13°C (0.23°F) between -40°C and -25°C (-40°F and -13°F)

##### Internal Relative Humidity Sensor

Type:	Capactive thin polymer film
Range:	0 to 95% RH (non-condensing)
Accuracy:	±3% RH from 10 to 90% RH (-20°C to 40°C [-4°F to 104°F])
Resolution:	Better than 0.04% RH between 25% and 60% RH @ 25°C (77°F)

##### External Sensors (2)

Range:	Any 2 sensors with a 0-5 VDC output
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#### ORDERING INFORMATION

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

