

Conservation Logger

Product Specifications

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

GENERAL SPECIFICATIONS

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| 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) <i>*Not available with sample rates faster than eight seconds</i> |
| 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 2 (compatible with Windows® 2000, and XP) |

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| 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

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| 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

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| 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)*

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|------------------------|--------------|
| Model#: | Cat#: |
| Conservation Logger | 01-0133 |