

OWL 100

Product Specifications

Type: Single-Channel Temperature Thermistor - Internal

GENERAL SPECIFICATIONS

Size:	60 mm x 48 mm x 19 mm (2.4" x 1.9" x 0.7")
Weight (plastic version):	54 grams (1.9 ounces)
Weight (water-resistant version):	80 grams (2.8 ounces)
Case (plastic version):	Noryl® plastic
Case (water-resistant version):	Polyurethane
Battery:	3.6 volt Lithium
Resolution:	8-bit (1 part in 256)
Mounting:	Magnetic backing or lock eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods:	Continuous (First-in, First-out)*, Stop When Full <i>*First-in, First-out not available with sample rates faster than 8 seconds</i>
Operating Limits:	-40 to 70°C (-40 to 158°F)
Submergence Rating:	IP67 - 1 m (3.28') in fresh water for 30 minutes (OWL-100 Poly)
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® 2 (compatible with Windows® 2000, and XP)
Communication:	Optical data transfer; data can be transmitted through glass, water, or any transparent medium up to 25 mm (1") away

Memory Size:	32KB (capable of storing up to 32,767 readings)
Sampling Rates:	User selectable rates from 5 per second to once every 12 hours
Number of Channels:	One (one internal channel for ambient temperature)

SENSOR SPECIFICATIONS

Temperature Sensor:	NTC Thermistor
Range:	-40 to 70°C (-40 to 158°F)
Total Accuracy:*	+/- 0.5°C @ 25°C (+/- 0.9°F @ 77°F) <i>*Can be increased by using narrow range feature (see below)</i>
Resolution:*	0.5°C at 25°C (0.9°F @ 77°F); better than 1°C (1.8°F) between -25 and 70°C (-13 and 158°F); better than 2.0°C (3.6°F) between -40 and -25°C (-40 and -13°F) <i>*Can be increased by using narrow range feature (see below)</i>
Measurement Range:	Over 200 software selectable ranges available (measurement spans as narrow as 10°C [18°F] and as wide as 110°C [200°F])

The OWL 100 data logger records temperature in environments that typical data loggers cannot withstand. This model is also available in a water-resistant polyurethane enclosure (OWL 100-Poly) so it can be used in hostile environments where vibration or excess moisture is present.



WARRANTY

Internal Battery:	10 Years
Data Logger:	3 Years

APPLICATIONS

Food process verification, pharmaceutical storage, laboratories, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc.

Model#:	Cat#:
OWL-100 POLY	01-0050
OWL-100 PLASTIC	01-0250