Nautilus85

Product Specifications

Type: *Single-Channel Temperature Thermistor - Max 85˚C*

GENERAL SPECIFICATIONS

Size:	18 mm x 127 mm (0.71" x 5.00")
Weight:	*Aluminum* - 51 grams (1.8 ounces) *Stainless Steel* - 112 grams (4 ounces)
Case Material:	Anodized aluminum or stainless steel
Battery:	3.6 volt Lithium, 0.95 Amp-Hour
Resolution:	8-bit (1 part in 256)
Mounting:	Locking hole on cap
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods:	Continuous (First-in, First-out), Stop When Full *(option to delay start, spot or average samples)*
Operating Limits:	-40 to 85˚C (-40 to 185˚F) and waterproof
Operating Pressure Range:	Up to 2000 PSI
Power Consumption:	5 to 10 micro amps (continuous)
PC Requirements:	IBM PC or 100% compatible with at least one free serial port, 2MB of RAM memory, and 2 MB of hard disk space
Software Requirements:	TrendReader® Express *(compatible with Windows® 3.1, 95, 98, Me, NT, 2000 and XP)*
Memory Size:	32K *(capable of storing up to 244,800 readings with data compression)*
Sampling Rates:	User selectable rates from 8 seconds to 34 minutes *(readings stored to memory can be spot or averaged over the sample interval, except for the 8 second interval)*
Number of Channels:	One *(one channel for ambient temperature)*

SENSOR SPECIFICATIONS

Temperature Sensor:

Type:	NTC Thermistor - 10,000 ohms @ 25˚C (77˚F)
Range:	-40 to 85˚C (-40 to 185˚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:	0.4ºC (0.7ºF) @ 25ºC; better than 1ºC (1.8ºF) between -25 and 70˚C (-13º and 158ºF); better than 2.0ºC (3.6˚F) between -40 and -25˚C (-40ºF and -13ºF)

The Nautilus85 is a durable, robust data logger that can monitor temperature in a variety of applications but is particularly well suited for the food and beverage, biomedical, pharmaceutical, and industries with hostile or "wet" environments (i.e. wastewater treatment plant). Housed in a stainless steel or aluminum casing, it can withstand virtually any environment and with an operating pressure range up to 2000 PSI, it is ideal for monitoring temperature in any type of water including oceans, ponds, rivers, streams and wastewater.



WARRANTY

Internal Battery:	**10 Years**
Data Logger:	**3 Years**

APPLICATIONS

Record temperature of food products and other perishable goods; useful in the storage and transportation of food, the medical and pharmaceutical industries, agricultural, ocean and pond studies, environmental studies, process monitoring, and hostile environment monitoring

Model#:	**Cat#:**
NTL-100 (Aluminum)	01-0261
NTL-101 (Stainles steel)	01-0262