

## Nautilus 135

# Single-Channel Temperature Data Logger (Max 135°C)

The high temperature capabilities of the Nautilus 135 make it the ideal logger for monitoring temperature in extreme environments or environments where conventional data loggers are not able to survive.

### **APPLICATIONS**

Autoclave verification; ETO sterilization; kiln drying studies; medical & pharmaceutical studies; agricultrual, ocean and pond studies; environmental studies; process monitoring; HVAC; well monitoring; and hostile environmental monitoring.

### **GENERAL SPECIFICATIONS**

Size: 18mm x 127mm (0.71" x 5.00")

Weight: Aluminum 51 g (1.8 oz); Stainless Steel 112 g (4 oz)

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, Delay Start, or Spot & Average

Operating Limits: 10 to 135°C (50 to 275°F) and waterproof

PC Requirements: Windows PC with at least one free USB or serial port (depending on

interface)

Software Requirements: TrendReader® 2 Express or TrendReader® 2 (Compatible with Windows XP, Vista,

Windows 7 and Windows 8 [32 bit & 64 bit])

Memory Size: 32 KB (capable of storing up to 244,800 with data compression enabled)

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 - 100,000 Ohms @ 25°C (77°F)

Range: 10°C to 135°C (50°F to 275°F)

System Accuracy:  $10^{\circ}\text{C to }38^{\circ}\text{C }(50^{\circ}\text{F to }100.4^{\circ}\text{F})$  better than  $\pm 2.3^{\circ}\text{C }(4.14^{\circ}\text{F})$ 

 $38^{\circ}$ C to  $121^{\circ}$ C ( $101^{\circ}$ F to  $249^{\circ}$ F) better than  $\pm 1.2^{\circ}$ C ( $2.16^{\circ}$ F)  $121^{\circ}$ C to  $135^{\circ}$ C ( $250^{\circ}$ F to  $275^{\circ}$ F) better than  $\pm 1.5^{\circ}$ C ( $2.7^{\circ}$ F)

#### ORDERING INFORMATION

 Item
 Cat#:

 NTL-102 (Aluminum)
 01-0263

 NTL-103 (Stainless Steel)
 01-0264







