SINGLE CHANNEL TEMPERATURE DATA LOGGER

Sample Rates from 1 minute

Miniature

Monitor from -40°C to +85°C



INTRODUCTION

SL51T BUTTON DATA LOGGERS

The SL51T is self contained single channel temperature data logger with the ability to record up to 2,048 data points. The SL51T will measure from -40°C to +85°C with a typical accuracy of \pm 1°C. They are very small (about the same size as a watch battery) which enables them to be inserted into small items and packages.

The SL50R Button Reader[™] interfaces to the RS232 or USB port of a PC and is totally compatible with the TempIT-lite operating software which enables the logger to be set up and the data read and displayed in graphical format. Data can be stored and retrieved at a later time. The software can be up-graded to TempIT-Pro which provides various additional features such as data table view, export data to spreadsheet, email graphs, and automated MKT Calculations etc.

SPECIFICATIONS

Description	SL51T
Sensor - Internal Temperature Sensor	-40°C to +85°C
Sensor Accuracy	±1°C from -30°C to +70°
	±1.3°C Outside this band
Battery Life	10 Years or 1 million samples*5
Sample Rates (User Selectable)	1 to 255 Minutes
Memory Size	2048 Readings
Battery	3.0V Lithium: Non Replaceable
Resolution	8 Bit (0.5°C)
Response Time	Typically 90 seconds in circulating air
Size	17mm Diameter x 6mm Height
Case Material	305 Stainless Steel
Weight	4 grams
Sealing	IP55 - Water Resistant See protective enclosures for waterproof applications.
Communication	RS232 Serial or USB
Clock Accuray	±2 Minutes per Month
Sampling Methods	Continuous (First in First Out) or Stop When Full*2
Alarms	High and Low
Start Delay	Up to 45 days, 1 Minute Resolution
Start on Alarm	No
Owner Manifest Data	Up to 32 Characters
User Manifest Data	Up to 64 Characters

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Computer Requirements

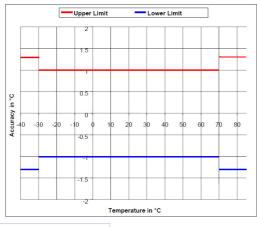
Operating System: Windows 2000, WinXP or Vista32. IBM PC or compatible computer 500 MHz (1GHz recommended) with 256MB Ram (512MB Recommended)

Software Requirements

TempIT-Lite (free from Signatrol website: www.signatrol.com) or TempIT-Pro

Error Curve

The SL51T actual error depends upon the ambient temperature according to the following graph:

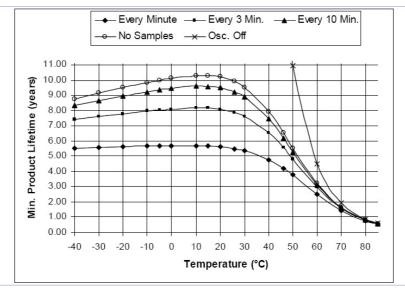


APPLICATIONS

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

Battery Life

Battery life is considerably shortened by logging at temperatures in excess of 30°C. The following graph shows the effect of temperature on the battery life of the SL51T.





ORDER CODE

SL51T Low Cost Data Logging button -40°C to +85°C

ACCESSORIES

SL50-INTERFACE-USB		USB Interface cable
SL50-WALL		Wall Mounting Bracket - Pack of 5
SL50-CLIP		Plastic Snap-in Fob - Pack of 5
SOFTWARE		
TempIT-Lite	Operating Software (Free from website)	
TempIT-PRO	Standard Operating Software	

STARTER KITS SL51 - KIT - - -Interface: USB - USB Interface 232 - RS232 Interface Number of Data Loggers: 2,3,4 or 5

Every effort has been taken to ensure the accuracy of this specification, however we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.