

# USB TEMPERATURE DATA LOGGER

SL51USB, SL52USB & SL54USB

Temperature & Relative Humidity Option

Sample Rates from 1 second to 24 hours

Monitor from -10°C to +85°C

Self Contained Temperature Data Logger

No Cables

TempIT Compatible

[www.dataloggermart.com](http://www.dataloggermart.com)

## INTRODUCTION

The SL51USB and SL52USB are self contained temperature data loggers and the SL54USB measures and records both temperature and relative humidity they have the ability to record up to 8,000 data points. They operate over a temperature range of -10°C to +85°C.

The data loggers connect to the USB port of a PC and are 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, snap to trace, and automated MKT Calculations etc. TempIT-Lite can be downloaded free of charge from the Signatrol Website.



## SPECIFICATIONS

Description	SL51USB	SL52USB	SL54USB
Sensor	Temperature	Temperature	Temperature & Relative Humidity
Accuracy	±1.0°C	±0.5°C	±0.5°C ±5%RH
Resolution	0.5°C	0.5°C low resolution mode 0.07°C high resolution mode	Low resolution mode: 0.5°C / 0.64%RH High resolution mode: 0.07°C / 0.04%RH
Battery Life	10 years or 1 million samples	Typically 3 years	
Response Time	Typically 5 minutes		
Sample Methods	First in first out or stop when full		
Software Alarms	Yes, high and low		
Start Delay	Up to 45 days with 1 minute intervals		
Start on Alarm	No	Yes	
Owner Manifest	Yes - up to 32 characters		
User Manifest	Yes - up to 64 characters		
Size	70mm (L) x 25mm (W) x 17mm (H)		
Case Material	ABS		
Weight	8 grams		
Sealing	IP20 - 0 to 95%RH non condensing		
Warranty	1 Year		
Software	Fully compatible with the TempIT software		

**Easy Solutions**

### Notes:

1. Sample rate affects battery life as does high temperature exposure
2. "Stop when full" is the only option for sample rates less than 1 minute
3. More data is stored in low resolution mode and battery life is enhanced