# USB TEMPERATURE DATA LOGGER
## SL51USB, SL52USB & SL54USB

**Temperature & Relative Humidity Option**

**Sample Rates from1 second to 24 hours**

**Monitor from -10°C to +85°C**

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**Self Contained Temperature Data Logger**

**No Cables**

**TempIT Compatible**

## 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 | | |

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### Data Logging 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