

# Single Channel “Button” Temperature Data Logger



DS6001

## Features:

- Self-contained temperature logger
- Monitor from -40 to 125°C
- Water resistant
- TempIT compliant



---

## Description:

The SL50 series are self-contained single channel temperature data loggers with the ability to record over 8,000 data points. They operate in a temperature range of -40°C to 125°C and can record temperature, or temperature and humidity, depending upon the model chosen. They are very small (about the same size as a watch battery) which enables them to be inserted into small items and packages.



---

## General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

© TT electronics plc

TT Electronics | Roxspur Measurement & Control  
2 Downgate Drive, Sheffield, South Yorkshire, S4 8BT, UK | Ph: +44 (0) 114-244-2521  
[www.ttelectronics.com](http://www.ttelectronics.com) | [RoxspurSales@ttelectronics.com](mailto:RoxspurSales@ttelectronics.com)

Issue A 07/2018 Page 1

# Single Channel “Button” Temperature Data Logger



SL51T	SL52/53T	SL54TH	
<b>Sensor (Internal)</b>	<b>Temperature</b> -40 to 85°C	<b>Temperature</b> <b>SL52T</b> -40 to 85°C <b>SL53T</b> 0 to 125°C	<b>Temperature/RH</b> Temp: -20 to 85°C RH: 0 to 100%
<b>Sensor Accuracy</b>	1°C from -30 to 70°C 1.3°C outside this band	<b>SL52T</b> 0.5°C from -10 to 65°C <b>SL53T</b> 0.5°C from 20 to 75°C	0.5°C from -10 to 65°C RH: ±5%
<b>Battery Life</b>	10 years or 1M temperature measurements @ Ta<50°C	Depends upon sample rate and ambient temperature*1	
<b>Sampling Rates</b> (user selectable)	1 to 255 minutes	1 sec to 24 hrs*1*2	
<b>Memory Size</b> (readings)	2048	8192 - low resolution mode*3 4096 - high resolution mode*3	
<b>Resolution</b>	8 bit - 0.5°C	8 or 11 bit (0.0625°C)*3	Temp: 8 or 11 bit RH: 8 or 12 bit
<b>Size</b>	17 mm diameter x 6 mm height		
<b>Case Material</b>	305 Stainless Steel		
<b>Weight</b>	4 g		
<b>Sealing</b>	Water resistant	Water resistant	N/A
<b>Communication</b>	RS232 serial/USB		
<b>Sampling Methods</b>	Continuous (First-in/First-out) or stop when full		
<b>Alarms</b>	High and low		
<b>Owner Manifest Data</b>	Up to 36 characters		
<b>User Manifest Data</b>	Up to 72 characters		

\*1 Sample rate affects battery life as does high temperature exposure

\*2 "Stop when full" is the only option for scan rates <1 minute/sample

\*3 Resolution is programmable 8 or 11 bits. More data can be stored in 8 bit mode and battery life is enhanced

#### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | Roxspur Measurement & Control  
2 Downgate Drive, Sheffield, South Yorkshire, S4 8BT, UK | Ph: +44 (0) 114-244-2521  
www.ttelectronics.com | RoxspurSales@ttelectronics.com