Single Channel "Button" Temperature Data Logger

DS6001

Features:

- Self-contained temperature logger
- Monitor from -40 to 125ºC
- 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 -40ºC to 125ºC 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.

Single Channel "Button" Temperature Data Logger

TT Electronics

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