

SL500 Series

Data Loggers with LCD Real Time Display

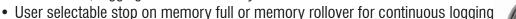
The SL500 series of temperature and temperature/humidity data loggers are simple to use, versatile test instruments which can be used in a multitude of applications. Each data logger includes Windows® based software, operator's manual on CD and 3' USB interface cable and battery.

Flexible sample rates range from one second to 9 hours.

Windows® based software is easy to set up and use. All functions include sample rate, logging duration, start mode, logging mode and visual high/low temperature alarms. Once logging is complete the data can be downloaded from the logger, plotted & exported to an Excel or text file format for analysis.

Standard Data Logger Features

• LCD real time display of temperature (°F or °C), relative humidity (SL500TH only), time, date, alarm status, logging status and battery life



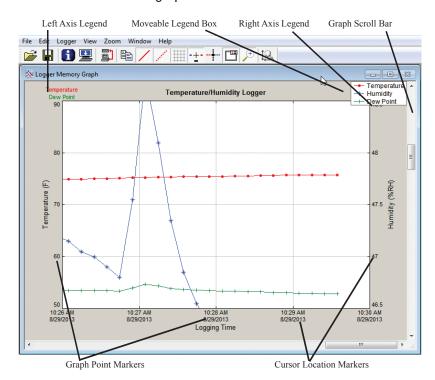
- Delayed start or push button logging control
- Read data on Logger Display
- · Displays alarm icon for high/low alarm status
- Non-volatile EEPROM memory retains data even if battery fails
- · USB interface for fast data transfer
- · Compact, light-weight, simple to use
- 1-year warranty
- Optional NIST (National Institute of Standards & Technology) calibration available

SUPPON SLEDONT SLESS OF DOWN UP UNITS START Temperature Data Logger SLESOOXT

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Working the Data Graph

Clicking anywhere within the graph window activates the graph toolbar buttons and the graph window features.





SUPCO	
PART NO.	DESCRIPTION
SL500T	Temperature Data Logger
SL500TH	Temperature & Humidity Data Logger
SL500XT	External Probe Temperature Data Logger
SL500TC	Thermocouple Temperature Data Logger

SL500T / SL500XT / SL500TH Specifications

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Sample Point Capacity:	43,344 temperature points for the SL500T and SL500XT.			
	21,672 each temperature and humidity points for the SL500TH.			
Display:	Current reading and time, logging status, alarm status, recorded			
	sample history, battery level. SL500TH alternates the display between			
	temperature and humidity every two seconds.			
Alarms:	Visual over and under alarm indicator for temperature and /or humidity.			
Calibration:	User single point offset calibration is available through software.			
	Calibration is password protected.			
Operating Temperature:	-5°F to 160°F (-20°C to 70°C)			
External Probe Temperature				
Measurement Range (SL500XT):	-40°F to 176°F (-40°C to 80°C)			
External Probe Length (SL500XT):	6' (1.8m)			
Storage Temperature Range:	-20°F to 175°F (-30°C to 80°C)			
Time Accuracy:	+/- 100 ppm @ 75°F (24°C)			
Temperature Accuracy:	+/- 0.9°F (0.5°C) for the range 0°F to 120°F (-17°C to 50°C)			
Temperature Resolution (PC Software):	0.05°F (0.03°C)			
Relative Humidity Accuracy (SL500TH):	+/- 2% RH for the range of 10% RH to 90% RH			
Relative Humidity Resolution (SL500TH):	0.05% RH			
Dimensions:	2.15" x 2.25" x 0.55" (5.5cm x 5.57cm x 1.4cm)			
Power Source:	3V CR2032 Lithium (Included)			
Battery Life:	3-years average use			

Applications

CoolersWarehouses

• Freezers • Environmental Monitoring

Greenhouses Museums Shipping Containers Food Storage Kennels Laboratory

• Computer Rooms

Replacement Parts

• SL500TC type K temperature probe: P/N 14781

• SL500T/SL500TH/SL500XT battery (CR2032): P/N 12782

Tech Tips

- Always install the software to the PC before connecting the data logger to the PC.
- These data loggers and temperature sensors cannot be submerged in any type of liquid.
- User guide & specifications are included in the data logger software.

SL500TC Specifications

Sample Point Capacity:	32,638 temperature points.	
Includes:	Type K insulated beaded wire thermocouple 40" (1m).	
Other Supported Thermocouples:	J, E, N, T, S, R, B, C	
Current reading and time, logging status, alarm status, recorded sample history, battery level, thermocouple type. Displays temperature up to 1999°F or 1999°C.		
Alarms:	Visual over and under temperature alarms.	
Display Temperature Resolution:	0.2°F (0.1°C) up to 199.9°F or °C. 1°F or 1°C above 200°F or 200°C	
Logged Temperature Resolution:	0.2°F (0.1°C)	
Thermocouple Impedance:	50 Ohms maximum for specified accuracy	
Cold Junction Temperature Accuracy:	+/- 0.5°F (0.3°C)	
Calibration:	User single point offset calibration is available through software. Calibration is password protected.	
Operating Temperature:	0°F to 131°F (-18°C to 55°C)	
Storage Temperature:	-20°F to 175°F (-30°C to 80°C)	
Time Accuracy:	+/- 100 ppm @ 75°F (24°C)	
Dimensions:	2.15" x 2.25" x 1.2" (5.5cm x 5.7cm x 3.0cm)	
Power Source:	3-AAA batteries (Alkaline or Lithium recommended), included.	
Battery Life:	2-years average use	

SL500TC Temperature Range

THERMOCOUPLE	ACCURACY	SL500TC TEMPERATURE RANGE
K	+/- 1.3°F (0.7°C)	-418 to 2372°F (-250 to 1300°C)
J	+/- 1.0°F (0.6°C)	-274 to 1832°F (-170 to 1000°C)
E	+/- 0.8°F (0.4°C)	-328 to 1508°F (-200 to 820°C)
N	+/- 1.5°F (0.8°C)	-328 to 2372°F (-200 to 1300°C)
Т	+/- 1.3°F (0.7°C)	-328 to 752°F (-200 to 400°C)
S	+/- 5.0°F (2.8°C)	-58 to 3200°F (-50 to 1760°C)
R	+/- 5.0°F (2.8°C)	-58 to 3200°F (-50 to 1760°C)
В	+/- 6.0°F (3.3°C)	68 to 3308°F (20 to 1820°C)
C	+/- 3.0°F (1.7°C)	32 to 4208°F (0 to 2320°C)

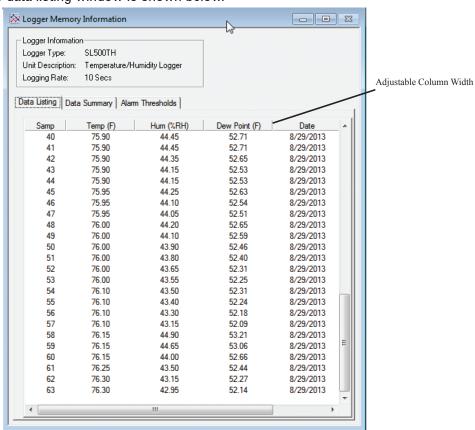
The accuracy stated is for the SL500TC only. Inaccurate readings increase based on the thermocouple wire grade being used. The logger supported range is for stored temperature.

Software Features

- Selectable language (English/French/Spanish)
- Software compatibility: Windows® XP / VISTA / 7 / 8
- Minimum system requirements: 800 x 600 resolution, 1 free USB port
- Complete data summary to read statistics and alarm information in a simplified format
- Tabular view of data including detailed dates, times and values of recorded data
- Graph function displays data in graphical format
- · Cursor displays exact data of any point in the graphical display
- Magnify data with powerful zoom and auto scale functions
- Auto scale function fits data to screen or allows user to manually enter their own values
- · Export data in Excel or text format
- · Print graph or text data with print preview and set up options
- Set up and launch data loggers with immediate or delayed start, preferred sample rate, alarm set up and custom ID up to 30 characters
- Password protected calibration function. A calibration window is included in the software to simplify the calibration procedure
- Convenient status displays ID of logger, battery life, memory used, sample rate, duration, alarm condition and logging status
- Menu Bar provides one click access to most software functions

Data Listing Window

The data listing window is shown below.



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