

PORTABLE DATA LOGGERS

SL120 SERIES

SMALL PHYSICAL SIZE BUT ROBUST
COST EFFECTIVE TEMPERATURE RECORDS

SECURITY TIE OPTION

www.signatrol.com

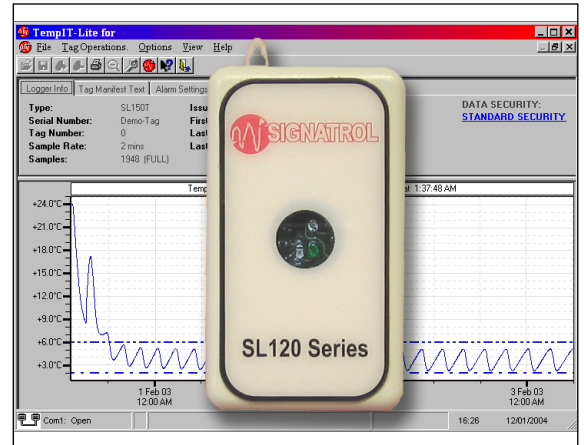
ENVIRONMENTAL MONITORING
HIGH ACCURACY AND RESOLUTION
IR DATA TRANSFER FOR FAST DOWNLOAD
LED AND AUDIO ALARM ANNUNCIATION

INTRODUCTION

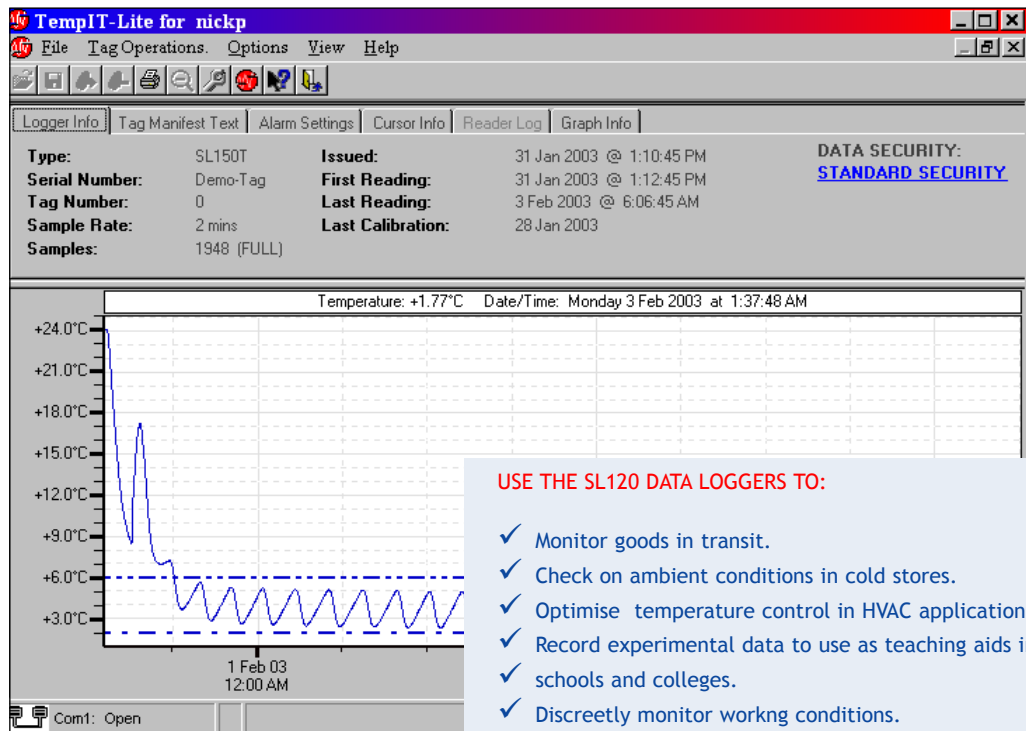
The SL120 series data loggers are designed to provide an accurate record of temperature or 4-20 mA signals..

Up to 16000 records can be stored in the logger which uses the powerful TempIT-Lite software package, running on a PC, to download the configuration and to retrieve the data. High and Low alarms can be set with a programmable time period for which the alarm limit must be exceeded before it is recognised as an alarm. Any alarm condition detected is clearly shown on the chart and, in the case of the SL121, is announced by flashing an on-board LED and audio 'bleeper'.

The PC operating software, TempIT-Lite is free from our web site or, alternatively, the SL 120 can be used with the TempIT-Pro package to provide greater functionality. Either version provides a powerful yet easy to use graphing package as well as providing a platform to set up and issue the logger. Up to 450 characters of manifest information are held within the logger for easy identification and data retrieval.



Example of a graph from the TempIT- Lite software.



USE THE SL120 DATA LOGGERS TO:

- ✓ Monitor goods in transit.
- ✓ Check on ambient conditions in cold stores.
- ✓ Optimise temperature control in HVAC applications.
- ✓ Record experimental data to use as teaching aids in schools and colleges.
- ✓ Discreetly monitor working conditions.
- ✓ Ensure safe food storage

Signatrol.com
Data Logging Solutions

Mythe Barns Business Park,
Tewkesbury, Gloucestershire, GL20 6EA
Telephone: +44 (0)8703 800 551 Fax: +44 (0)8703 800 552 Email: sales@signatrol.com

Technical Specifications @ 20 °C

	SL120	SL121
Ambient Temperature Range	-40 °C to +70 °C	
Measuring Temperature Range (Using External Sensor)	-40 °C to +250 °C	
Sensor	Internal (T) or External Thermistor (TR)	
Accuracy	± 0.5 °C	
Resolution	0.1 °C* ¹	
Response Time For 63%	Internal Thermistor - 5 Minutes External Thermistor - 6 Seconds	
Logging Interval	2 Sec to 24 Hours	
Max No of readings	2048	16384* ²
Delayed Start	No	Yes
Programmable Alarm points* ³	High,Low	High, Low
Alarm Indication	None	Red/Green LEDES + Audio 'bleep'* ⁴
Download Time (approx)	20 Seconds	100 seconds for 16000 readings
Owner Manifest	64 Characters	
User Manifest	450 Characters	
Battery Life	5 years typ @ 20 °C* ⁵	
Protection	Sealed to IP65 for SL120T, IP50 with encapsulated electronics for all others	
Material	Robust 'key fob' type, light grey ABS	
Enclosure	60 X 35 X 20 mm	
Fixing	Mounting hole to take security tie	
Communications - Logger	Short range infrared link to reader	
Communications - Reader	RS232 Port / USB (order as appropriate)	
Communications Rate	9600 Baud	
Software requirements	TempIT-Lite (FOC) or TempIT-Pro	

*¹ Internal 12 bit ADC.

*² Programmable, in the range of 100 to 16384 samples.

*³ Alarm points have programmable trigger period.

*⁴ LED blink and audio bleep rate both independently programmable between 2 and 10 seconds, or OFF.

*⁵ Non replaceable lithium battery with low battery warning via TempIT software. Battery life based on 1 min sample rate, audio bleeper and LEDs off.

MECHANICAL DETAILS

(dimensions in mm)



ORDER CODE

SL12 X X

0 = SL120 Logger
1 = SL121 Logger

T - Internal Temperature Sensor
TR - Remote Temperature Sensor

Accessories

SL120R-RS232	IR Interface with RS232 cable
SL120R-USB	IR Interface with USB cable
ACC120-01	Remote temperature probe 4mm diameter, 75mm long, 1m FEP cable. -40 °C to +125 °C operating range.
ACC120-02	As ACC120-01 but with an operating range of 60 °C to +250 °C
TempIT-Lite	Operating Software (Free from website)
TempIT-PRO	Standard Operating Software*
Security Tie	Pack of 50 security ties each uniquely numbered