

HIGH TEMPERATURE DATA LOGGERS

SL130T

Washer-disinfectant Validation

Autoclave Calibration

Waterproof to IP68

www.signatrol.com

PTFE Construction

Fast Response

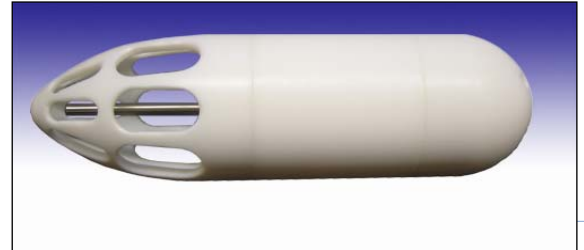
INTRODUCTION

The SL130T is a single channel temperature data logger designed to record temperatures in high temperature environments up to 140 Deg C.

It is manufactured from PTFE* material which is impervious to most common chemicals and is ideal for use in areas of food production. A Stainless Steel sensor, which is protected by the enclosure design, protrudes from the outside of the case to ensure a quick response.

Readings are stored to the internal memory which are subsequently downloaded via an Infra Red communications link to a PC computer running TempITtm Lite software where data are stored and displayed in graphical form and can be printed. Data are stored in secure format, protected from manipulation. TempITtm Pro is also available as an upgrade which enables data to be exported to spreadsheets and emailed to remote sites.

A separate version, the SL131T, has the option for a remote sensor so that temperatures inside sensitive produce can be monitored.



USE FOR VALIDATION AND VERIFICATION TO HTM2010 OR HTM2030 OF:

Autoclaves

Sterilisers

Washing Machines

Ovens

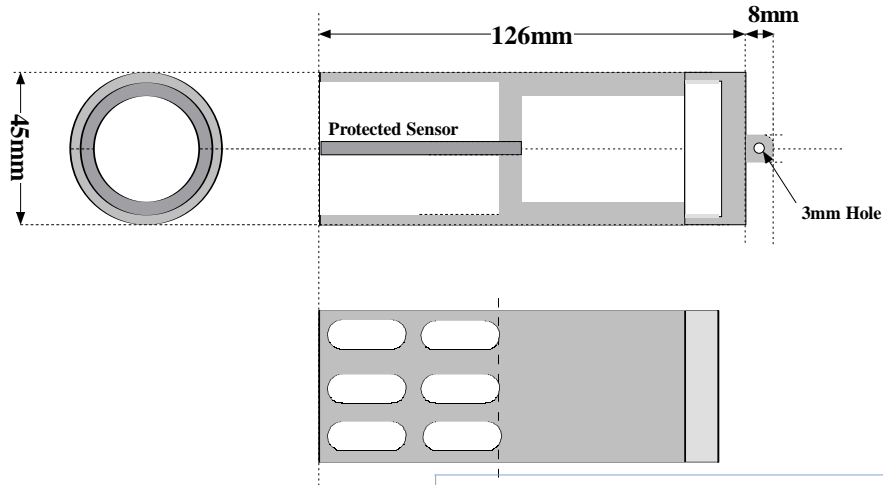
Heat Curing Processes

SPECIFICATIONS

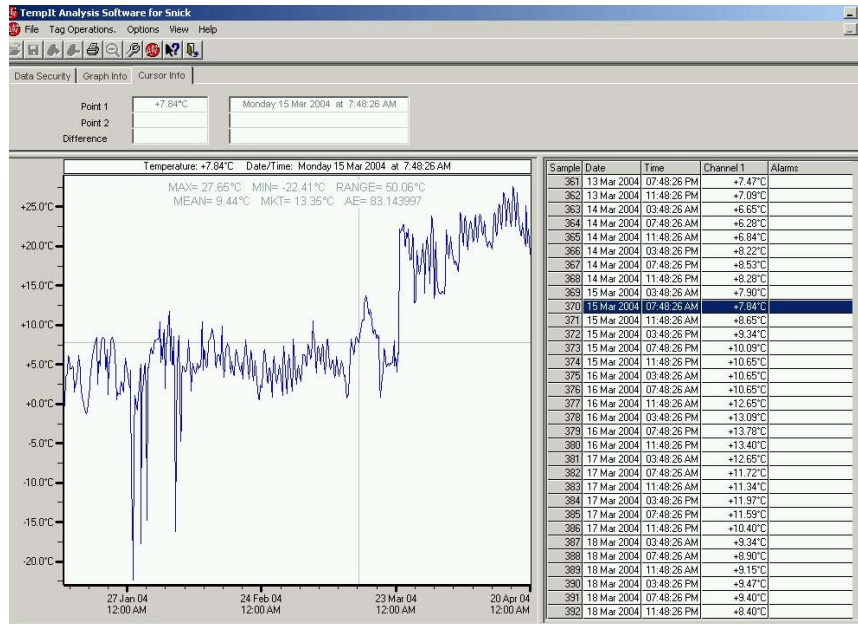
Temperature Range	-30 to +140 °C (See time Vs Temperature table below)
Sensor	Internal Thermistor
Accuracy	± 0.6°C ±0.1% of reading ± 0.06°C
Resolution	12 Bit < 0.06 ° C
Logging Interval	2 Seconds to 24 Hours
Max No of Readings	8192 (Programmable default 4000)
Response Time (63%)	4 Seconds in a stirred liquid bath, 30 seconds in still air
Programmable Alarm Points	Hi & Low Alarms with programmable trigger period
Alarm Indication	On Trace
Download Time (approx logger full)	50 Seconds for 4000 readings
Owner Manifest	64 Characters
User Manifest	450 Characters
Battery Life	5 Years Typ @ 6 Sec Sample
Protection	IP 68 with encapsulated electronics
Enclosure Material	Robust PTFE construction
Fixing	Mounting Hole to take Security tie
Communications Logger	IR Link to reader
Dimensions	45mm Diameter by 126mm (excluding 8mm mount)
Weight	Approx 240 grams

*Environmental: PTFE is unaffected by use in outdoor applications, and by ultra-violet light, weak acids > pH3, strong acids < pH3, strong alkalis < pH11, chlorinated hydrocarbons, and hot water.

Mechanical Details

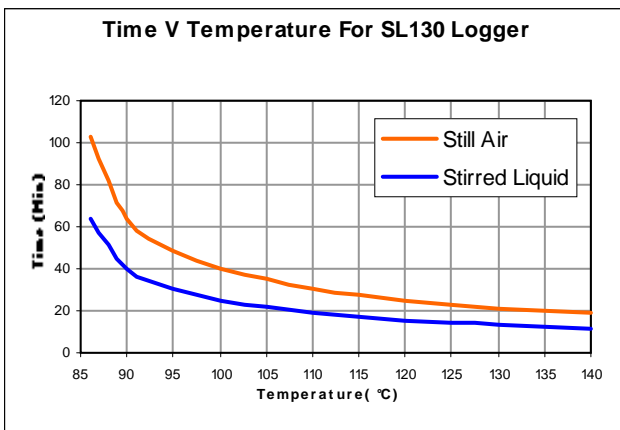


Screen Shot showing a typical graph on TempIT-Pro



Time v Temperature Profile

Due to limitations of the electronics and the battery, the unit cannot be used indefinitely at temperatures in excess of 85 °C. To determine the maximum exposure time consult the chart below



ORDER CODE

- SL130T Data Logger
- SL131T Data Logger with remote sensor (order sensors separately)
- SL120R-232 IR reader RS232 interface
- SL120R-USB IR reader RS232 interface
- TempIT-Lite Operating Software (Free from website)
- TempIT-Pro Operating Software with Data Table and MKT calculation