SENCON
SENSING • TESTING • GAUGING

SL4000

Oven temperature data logger

A smart temperature logging system for measuring metal and air temperature-over-time in PIN, IBO, OBO, Wicket and Side Stripe ovens during normal production cycles.

Designed specifically for the canmaking market, the SL4000 is a compact, rechargeable, and easy to use oven temperature logger. Together with Sencon's Hexagon™ analysis software, it enables regular monitoring of metal temperature profiles at normal production speeds, without incurring excessive downtime. This leads to better process control, higher can quality and enhanced operating efficiencies.

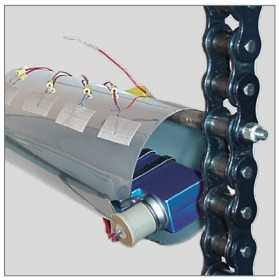


- **Powered by a rechargeable, high temperature, lithium-ion battery pack**
- **Included PowerDock™ provides instant data transfer, charging and aids cooling**
- **Large memory capacity allows data from several ovens to be logged**
- **Ultra compact - does not interfere with the natural air circulation in the oven**
- **A wider spread of data can be logged with up to 7 thermal probes**
- **Multiple triggering options are available, including an onboard switch**
- **On-site calibrations annually with return to base every 3 years.**

Ordering Information

CODE	ITEM	DESCRIPTION
SL4010	SL2000 upgrade kit	Includes SL4000 Logger, PowerDock™ and accessory kit supplied with a Peli™ case and Hexagon™ analysis software. Compatible with existing SL2000 accessories.
SL4100	SmartPin™ Oven Logger kit (for pin ovens)	Includes SL4000 Logger, PowerDock™, patch probe set, retaining clips, and accessory kit, supplied with a Peli™ case and Hexagon™ analysis software.
SL4200	SmartCan™ Oven Logger kit (for IBO/OBO Ovens)	Includes SL4000 Logger, PowerDock™, patch probe set, SmartCan™ thermal jacket and accessory kit, supplied with a Peli™ case and Hexagon™ analysis software.
SL4300	SmartSheet™ Oven Logger kit (for Sheet/Wicket ovens)	Includes SL4000 Logger, PowerDock™, SL2306 patch probe set, SmartSheet™ insulated jacket and accessory kit, supplied with a Peli™ case and Hexagon™ analysis software.
SL4400	SmartSeam™ Oven Logger kit (for Side Stripe ovens)	Includes SL4000 Logger, PowerDock™, SL2402 patch probe set, SmartSeam™ hinge set, and accessory kit, supplied with a Peli™ case and Hexagon™ analysis software.
SL4500	2 piece canmaking kit	Combined kit includes SL4100 SmartPin™ and SL4200 SmartCan™
SL4600	3 piece canmaking kit	Combined kit includes SL4300 SmartSheet™ and SL4400 SmartSeam™
SL4700	Complete oven logging system	Combined kit includes SL4100 SmartPin™, SL4200 SmartCan™, SL4300 SmartSheet™ and SL4400 SmartSeam™

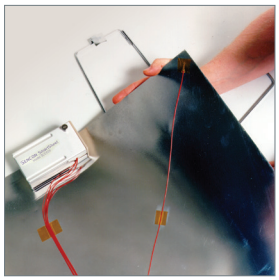
Accessory kit: Includes Kevlar gloves, thermal tape and pin extraction tool. The SL4100 and SL4400 also include thermal paste.



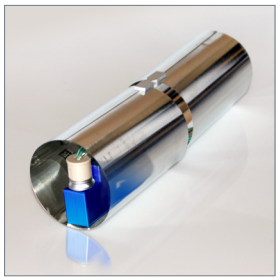
SmartPin™ for Pin Ovens



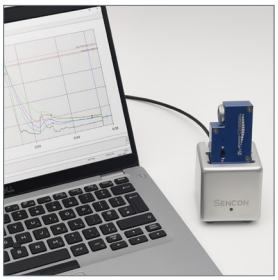
SmartCan™ for IBO/OBO



SmartSheet™ for Wicket Ovens



SmartSeam™ for Side Stripe Ovens

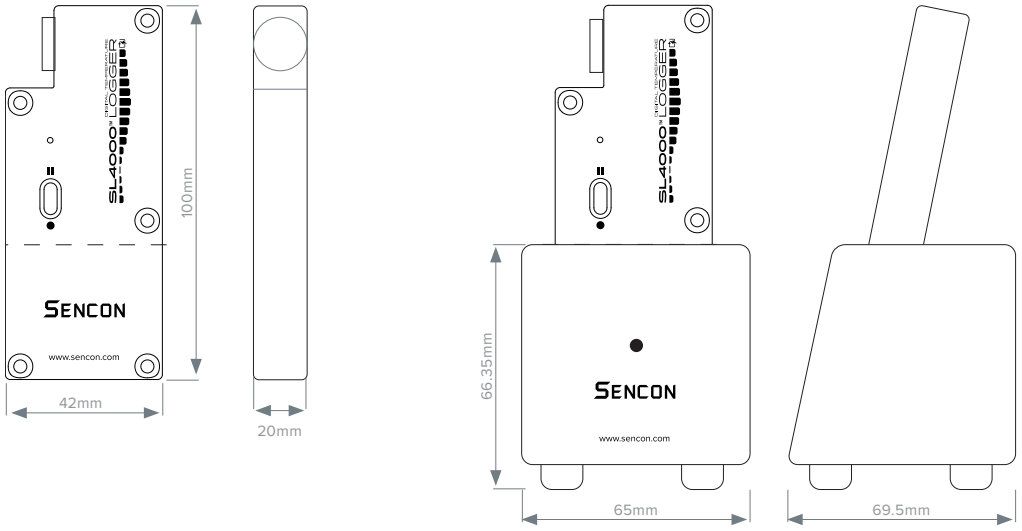


Hexagon™ Software

© Copyright 2025 Sencon Group. All rights reserved. Specifications subject to change without notice. E&OE

PHYSICAL PARAMETERS

Dimensions



	SL4000 LOGGER	SL4010 POWERDOCK™	SMARTCAN™ JACKET	SMARTSEAM™ JACKET
Width	42mm (1.65")	65mm (2.56”)	Ø 70mm (2.76”)	65mm (2.55”)
Length	100mm (3.94”)	69.5mm (2.74”)	-	125mm (4.92”)
Height	20mm (0.79”)	66.35mm (2.61”)	116mm (4.57”)	49mm (1.93”)
Weight	125 grams (4.4oz)	467 grams (1lb 0.5oz)	???	383 grams (13.5oz)
Colour	Blue Anodised Aluminium	Clear Anodised Aluminium	Blue Anodised Aluminium	Clear Anodised Aluminium

MAINTENANCE AND CALIBRATION REQUIREMENTS

Maintenance	No Routine maintenance, service or cleaning is required. The logger does not require Servicing.
Calibration	The logger is calibrated to UKAS standards prior to dispatch, with the calibration data stored locally on the logger. Annual calibration is recommended to maintain accuracy. On-site calibration is available and can be carried out during an annual service visit. The logger must be returned to Sencon every third year for a recalibration and performance validation.

DESIGN STANDARDS AND SAFETY

Design Standards	**CE:** Complies with relevant EU product directives **UKCA:** UK Conformity Assessed
Safety	Contains a rechargeable, high temperature, lithium-ion battery which may burst if mistreated – risk of fire, explosion and/or chemical burns. Refer to user manual for further safety information.

© Copyright 2025 Sencon Group. All rights reserved. Specifications subject to change without notice. E&OE

SL4000 TEMPERATURE LOGGER

ENHANCED FUNCTIONALITY: The SL4000 seamlessly integrates with existing workflows and comes equipped with a range of features designed to optimize performance and ease-of-use. With a temperature range of up to 375°C and a storage capacity of over 260,000 data points, the SL4000 offers unmatched data collection capabilities. Calibration data is also stored locally on the logger, eliminating the need for calibration files and streamlining the setup process to reduce potential sources of error.

Multiple triggering options are available and can be configured through the provided Hexagon™ analysis software. Options include: immediate; time delay; temperature threshold; or 'manual mode' with the onboard switch transitioning from 'standby' to 'record' as needed.

The high temperature, rechargeable, lithium-ion battery with a 10-minute quick-charge feature ensures the logger is always ready for use while the onboard LED provides real-time feedback on battery charging status.

SIMPLIFIED DATA TRANSFER: The SL4000 comes with a USB PowerDock™ which further enhances its usability by streamlining data transfer, simplifying charging and assisting with cooling. The logger securely locates in to the dock in the correct orientation with a reassuring magnetic pull-down ensuring a secure connection. This allows for easy transfer of oven data to the Hexagon™ analysis software without having to disconnect the thermal probes, making operation hassle-free. Additionally, the dock's 'cooling fins' help dissipate heat, protecting your surroundings and prolonging the lifespan of the logger.

COMPLETE ECO-SYSTEM: The SL4000 is designed to work with a wide range of accessories, including the SmartPin™ for short and medium cycle pin ovens, SmartCan™ for IBO's and OBO's, SmartSheet™ for sheet/wicket ovens and SmartSeam™ for side stripe ovens. The included Peli™ case with custom foam insert provides safe and organized storage for the logger and its accessories, ensuring operators have easy access to the tools they need.



EVERYTHING YOU NEED
Kits are supplied with a Peli™ case with custom foam insert and an accessory kit that includes: Kevlar gloves, pin extraction tool, thermal tape and thermal paste.

WORLDWIDE SUPPORT YOU CAN TRUST

We are committed to providing the best customer support worldwide with service engineers based in North and South America, Europe and Asia backed up with technical support from experienced industry specialists based at three technical support centers – you can trust Sencon.

Support is available via online chat, email and telephone with support resources for all Sencon products available through our online knowledge base.



Industry specialists since 1976

Sencon Inc.
North & Central America
TEL: +1 708 496 3100
info@sencon.com

Sencon
South America
TEL: + 55 19 9 9659 0145
info@sencon.lat

Sencon (UK) Ltd.
Europe, Asia, Africa, Oceania
TEL: +44 1905 827800
info@sencon.co.uk

www.sencon.com

© Copyright 2025 Sencon Group. All rights reserved. All trademarks acknowledged. Specifications subject to change without notice. E&OE