

# signatrol



## dLOG MINIATURE DATA LOGGERS

### TEMPERATURE / TEMPERATURE & HUMIDITY DATA LOGGERS

Low cost and simple to use, the dLog series are self-contained, multiple-use, miniature button style temperature or temperature & humidity data loggers that can record up to 9,500 temperatures or 9,500 temperature and 9,500 relative humidity readings, with various temperature ranges and accuracies. All dLog data loggers have the ability to read the remaining battery life and it is also possible to download the data stored within the data logger if the battery is dead.

[info@signatrol.com](mailto:info@signatrol.com) • 01684 299 399 • [signatrol.com](http://signatrol.com)

# INTRODUCTION

## SECOND GENERATION BUTTON STYLE LOGGER

### FULLY SEALED VERSIONS

### FOOD SAFE

### FDA AND BS EN 12830:2018 COMPLIANT

### REUSABLE

### SMALL SIZE

### NFC CONTACTLESS COMMUNICATIONS

### VERY HIGH ACCURACY

### TRACEABLE CALIBRATION CERTIFICATES ARE AVAILABLE

### HIGH-SECURITY SOFTWARE PACKAGE

- US NSF 61 @ 23°C & 82°C. US Drinking Water System Components
- USP Class VI Chapter 88
- ISO 10993-5 Cytotoxicity

Zytel® is a DuPont registered trademark.

Note: It is the responsibility of the company or person placing the product into contact with food to determine the overall compliance with applicable FDA food contact regulations.

The **SL62T / SL62T-A & SL63T / SL63T-A** are internally potted using Silicone Elastosil RT604 A/B.

- European Regulation (EC) 1935/2004
- EU 10/2011. Silicone potting compounds are exempted from this regulation.
- FDA CFR21 175.300.
- FDA CFR21 177.2600.

More detailed information is available upon request.

The **SL61T / SL61T-A** and **SL64TH / SL64TH-A** are not FDA approved.

The **SL62T** and **SL63T** are fully sealed and can be immersed in liquid without an additional protective enclosure. They are also *food-safe* with the construction materials certified by FDA.

All 'A' versions are supplied with an individual UKAS traceable calibration certificate and improved accuracy specification. A UKAS accredited calibration service is available upon request.

Readings are stored in non-volatile memory so they can even be extracted if the battery is exhausted.

Communication is provided by the latest NFC technology, allowing certain models to be sealed and, therefore, submersible without the need for protective enclosures.

The electronic circuit is encapsulated with epoxy resin and contained within an enclosure constructed from Zytel\* FGFE5171 NC010C which is a 33% glass filled nylon 66 resin with the following approvals:

- FDA CFR21 177.1500
- EU 10/2011. Plastic material and articles intended to come into contact with food.
- (EC) No 2023/2006. GMP (Good Manufacturing Practice) for materials and articles intended to come into contact with food.

## APPLICATION EXAMPLES

► FRIDGE & FREEZER MONITORING

► FACILITIES MANAGEMENT

► FOOD DISTRIBUTION & STORAGE

► PHARMACEUTICAL DISTRIBUTION

► PHARMACEUTICAL STORAGE

► MILK & DAIRY PRODUCTION

► COLD CHAIN

► CONTACT LENS MANUFACTURE

► CLINICAL TRIALS

► THERMOBRITE VALIDATION

The high-security TempIT5 software platform ensures that the data recorded are a true and faithful record of the actual conditions your sensitive items have been exposed to. These are essential requirements for achieving the various facets of an FDA21 CFR Part 11 validated system or, as part of a hazard analysis & critical control point (HACCP) based food safety programme. Compliant to BS EN 12830:201 8.



This compact 22mm diameter x 11.5mm high data logger has a battery life of up to 3 years, depending upon the device and the sample rate. This together with a data storage of 9,500 readings make the device suitable for a wide range of professional applications.

From measuring temperature and humidity in a warehouse to measuring the water temperature in an industrial washing machine or, measuring the cooking cycle temperature from within the centre of a steak pie, this compact data logger gives you an infinite number of options to measure your temperature or temperature and humidity requirements.

## HOW TO GET STARTED

### 1. THE DATA LOGGER

You have 8 variants to choose from. Choose which temperature range you require and if you require relative humidity measurement. Choose which option you want, a high accuracy with an individual calibration certificate or, a lower accuracy unit without a calibration certificate.

### 2. SL60-READER – NFC INTERFACE.

You will require a USB communications interface to program and download data from your data logger.

### 3. DOWNLOAD OUR FREE SOFTWARE

Download our free high-security TempIT5-LITE software from our website. If you find later that you need to analyse your data in greater detail, you can upgrade to our low-cost TempIT5-PRO option. Once you have this, you are good to go.

*Starter kits are available providing you with everything you need to get started. Please see page 8. These can be purchased easily via our website, phone or email and can be dispatched the same day if orders are received by 12.00 noon.*

## dLog SERIES - TECHNICAL SPECIFICATIONS

\* All 'A' versions come complete with  
UKAS 17025 traceable calibration certificates



### SL61T

Low Cost  
Temperature Only

TEMPERATURE RANGE -20 to +70°C  
ACCURACY  $\pm 0.5^{\circ}\text{C}$   
RESOLUTION  $0.2^{\circ}\text{C}$   
IP RATING IP30



### SL61T-A\*

Low Cost  
Temperature Only  
UKAS Traceable Cal Cert

TEMPERATURE RANGE -20 to +70°C  
ACCURACY  $\pm 0.25^{\circ}\text{C} \pm 0.1\%$  Calibrated Span  
RESOLUTION  $0.2^{\circ}\text{C}$   
IP RATING IP30



### SL62T

High Accuracy  
Temperature Only

TEMPERATURE RANGE -40 to +85°C  
ACCURACY  $\pm 0.2^{\circ}\text{C}$  between 0 to +50°C,  
 $\pm 0.3^{\circ}\text{C}$  between -20 to +85°C  
 $\pm 0.4^{\circ}\text{C}$  between -20 to -40°C  
RESOLUTION  $0.02^{\circ}\text{C}$   
IP RATING IP68



### SL62T-A\*

High Accuracy  
Temperature Only  
UKAS Traceable Cal Cert

TEMPERATURE RANGE -40 to +85°C  
ACCURACY  $\pm 0.1^{\circ}\text{C} \pm 0.1\%$  Calibrated Span  
RESOLUTION  $0.02^{\circ}\text{C}$   
IP RATING IP68



### SL63T

Wide Temperature  
Temperature Only

TEMPERATURE RANGE -40 to +125°C  
ACCURACY  $\pm 0.2^{\circ}\text{C}$  between 0 to 50°C,  
 $\pm 0.3^{\circ}\text{C}$  between -20 to 100°C  
 $\pm 0.4^{\circ}\text{C}$  between -40 to +125°C  
RESOLUTION  $0.02^{\circ}\text{C}$   
IP RATING IP68



### SL63T-A\*

Wide Temperature  
Temperature Only  
UKAS Traceable Cal Cert

TEMPERATURE RANGE -40 to +125°C  
ACCURACY  $\pm 0.1^{\circ}\text{C} \pm 0.1\%$  Calibrated Span  
RESOLUTION  $0.02^{\circ}\text{C}$   
IP RATING IP68



### SL64TH

High Accuracy  
Temperature & Relative Humidity

TEMPERATURE RANGE -20 to +70°C  
TEMPERATURE ACCURACY  $\pm 0.2^{\circ}\text{C}$  between 0 to 50°C,  
 $\pm 0.3^{\circ}\text{C}$  between -20 to 70°C  
 $\pm 0.02^{\circ}\text{C}$   
TEMPERATURE RESOLUTION  $0.02^{\circ}\text{C}$   
RELATIVE HUMIDITY RANGE 0 to 100%RH (Non-condensing)  
RELATIVE HUMIDITY ACCURACY 3.5% RH (10 to 90% RH)  
5.0% RH (0 to 100% RH)  
RELATIVE HUMIDITY RESOLUTION 0.05% RH  
IP RATING IP30



### SL64TH-A\*

High Accuracy  
Temperature & Relative Humidity  
UKAS Traceable Cal Cert

TEMPERATURE RANGE -20 to +70°C  
TEMPERATURE ACCURACY  $\pm 0.1^{\circ}\text{C} \pm 0.1\%$  Calibrated Span  
TEMPERATURE RESOLUTION  $\pm 0.02^{\circ}\text{C}$   
RELATIVE HUMIDITY RANGE 0 to 100%RH (Non-condensing)  
RELATIVE HUMIDITY ACCURACY  $\pm 2.0\%$  RH (10 to 80% RH)  
 $\pm 3.5\%$  RH (0 to 100% RH)  
RELATIVE HUMIDITY RESOLUTION 0.05% RH  
IP RATING IP30

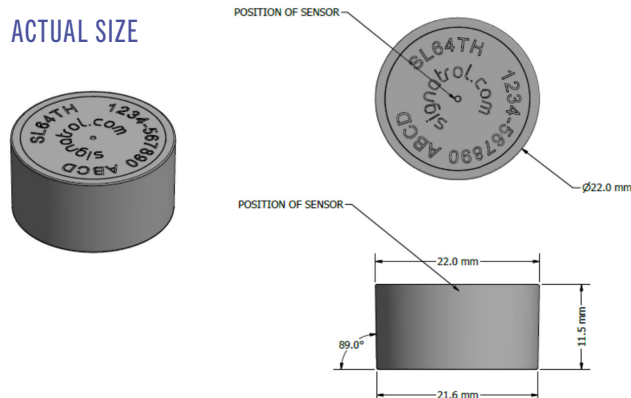
## dLog SERIES - TECHNICAL SPECIFICATIONS

| PRODUCT                                                  | SL61T               | SL61T-A                          | SL62T                                                                                     | SL62T-A                         | SL63T                                                                                        | SL63T-A                         | SL64TH                                                      | SL64TH-A                                                  | Units / notes           |
|----------------------------------------------------------|---------------------|----------------------------------|-------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|-------------------------|
| TEMPERATURE RANGE                                        | -20°C to +70        |                                  | -40°C to +85°C                                                                            |                                 | -40°C to +125°C<br>(NFC Communications<br>-20°C to +85°C)                                    |                                 | -20°C to +70°C                                              |                                                           | Max                     |
| RELATIVE HUMIDITY RANGE                                  | Not Applicable      |                                  |                                                                                           |                                 |                                                                                              |                                 | 0 to 100% (Non-condensing)                                  |                                                           | Max                     |
| TEMPERATURE RESOLUTION                                   | 0.2°C               |                                  | 0.02°C                                                                                    |                                 |                                                                                              |                                 |                                                             |                                                           |                         |
| HUMIDITY RESOLUTION                                      | Not Applicable      |                                  |                                                                                           |                                 |                                                                                              |                                 | 0.05% RH                                                    |                                                           |                         |
| TEMPERATURE ACCURACY                                     | ±0.5°C              | ±0.25°C<br>±0.1% Calibrated Span | ±0.2°C<br>between 0 & 50°C, ±0.3°C<br>between -20 & 85°C<br>±0.4°C<br>between -20 & -40°C | ±0.1°C ±0.1%<br>Calibrated Span | ±0.2°C<br>between 0 & 50°C, ±0.3°C<br>between -20 & 100°C,<br>±0.4°C<br>between -40 & +125°C | ±0.1°C ±0.1%<br>Calibrated Span | ±0.2°C<br>between 0 & 50°C,<br>±0.3°C<br>between -20 & 70°C | ±0.1°C ±0.1%<br>Calibrated Span                           | Max                     |
| RELATIVE HUMIDITY<br>ACCURACY @ 25°C                     | Not Applicable      |                                  |                                                                                           |                                 |                                                                                              |                                 | 3.5% RH<br>(10 to 90% RH),<br>5.0% RH<br>(0 to 100% RH)     | ±2.0% RH<br>(10 to 80% RH),<br>±3.5% RH<br>(0 to 100% RH) | Max                     |
| TEMPERATURE<br>REPEATABILITY                             | ±0.1°C              |                                  | ±0.04°C                                                                                   |                                 |                                                                                              |                                 |                                                             |                                                           | Max                     |
| TEMPERATURE<br>LONG-TERM DRIFT                           | ±0.1°C              |                                  | ±0.03°C/Year                                                                              |                                 |                                                                                              |                                 |                                                             |                                                           | typical                 |
| RELATIVE HUMIDITY<br>REPEATABILITY                       | Not Applicable      |                                  |                                                                                           |                                 |                                                                                              |                                 | ±0.02% RH                                                   |                                                           | typical                 |
| RELATIVE HUMIDITY<br>HYSTERESIS                          | Not Applicable      |                                  |                                                                                           |                                 |                                                                                              |                                 | ±0.02% RH                                                   |                                                           | typical                 |
| RELATIVE HUMIDITY<br>LONG-TERM DRIFT                     | Not Applicable      |                                  |                                                                                           |                                 |                                                                                              |                                 | 0.19% RH/Year                                               |                                                           | typical                 |
| RELATIVE HUMIDITY<br>SENSOR MANUFACTURE                  | Not Applicable      |                                  |                                                                                           |                                 |                                                                                              |                                 | Capacitive Polymer<br>Dielectric                            |                                                           |                         |
| VIRTUAL DEW POINT<br>AND ABSOLUTION<br>HUMIDITY CHANNELS | No                  |                                  |                                                                                           |                                 |                                                                                              |                                 | Yes                                                         |                                                           |                         |
| LOGGING INTERVAL                                         | 1 Minute to 2 Hours |                                  | 3 Seconds to 24 Hours                                                                     |                                 | 1 Second to 24 Hours                                                                         |                                 | 3 Seconds to 24 Hours                                       |                                                           |                         |
| MAX READINGS                                             | 2,100               |                                  | 9,500                                                                                     |                                 |                                                                                              |                                 |                                                             |                                                           | Readings per<br>Channel |

## dLog SERIES - TECHNICAL SPECIFICATIONS continued...

| PRODUCT                      | SL61T                                                                                                                                                                                                                                                                          | SL61T-A | SL62T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SL62T-A                           | SL63T                             | SL63T-A                           | SL64TH                                                                     | SL64TH-A                          | Units / notes |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------------------------------------------|-----------------------------------|---------------|
| POWER SOURCE                 | The device is powered by a non-serviceable internal coin cell. When the device is present on an active NFC reader the device will take power from the reader in preference to the internal battery.<br>The device can also be downloaded in the event of an exhausted battery. |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            |                                   |               |
| BATTERY LIFE                 | Typically 2 Years                                                                                                                                                                                                                                                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            |                                   |               |
| BATTERY INDICATOR            | Yes. Battery life percentage remaining available through TempIT5.                                                                                                                                                                                                              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            |                                   |               |
| PHYSICAL SIZE                | Diameter 22.0mm, Height 11.5mm                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            | Max                               |               |
| ENCLOSURE MATERIAL           | Nylon 66<br>+ 33% Glass Fibre                                                                                                                                                                                                                                                  |         | Zytel® FGFE5171<br>Raw material meets the following standards<br>FDA CFR21 177.1500 Nylon Resins<br>EU 10/2011. Plastic material and articles<br>intended to come into contact with food.<br>(EC) No 2023/2006. GMP (Good manufacturing<br>practice) for materials and articles intended<br>to come into contact with food.<br>US NSF 61 @ 23°C & 82°C.<br>US Drinking Water System Components<br>USP Class VI Chapter 88<br>ISO 10993-5 Cytotoxicity<br><i>Zytel® is a DuPont registered trademark.</i> |                                   |                                   |                                   | Nylon 66<br>+ 33% Glass Fibre                                              |                                   |               |
| DEGREE OF PROTECTION         | IP 30                                                                                                                                                                                                                                                                          |         | IP68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                   |                                   | IP30                                                                       |                                   |               |
| TEMPERATURE<br>RESPONSE TIME | Stirred Air: T <sub>63</sub> 150 Seconds<br>T <sub>10-90</sub> 246 Seconds                                                                                                                                                                                                     |         | Stirred Air: T <sub>63</sub> 141 Seconds T <sub>10-90</sub> 255 Seconds<br>Stirred Water: T <sub>63</sub> 72 Seconds T <sub>10-90</sub> 132 Seconds                                                                                                                                                                                                                                                                                                                                                      |                                   |                                   |                                   | Stirred Air: T <sub>63</sub> 150 Seconds<br>T <sub>10-90</sub> 246 Seconds |                                   |               |
| HUMIDITY RESPONSE TIME       | Not Applicable                                                                                                                                                                                                                                                                 |         | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |                                   |                                   | Stirred Air: T <sub>63</sub> 200 Seconds                                   |                                   |               |
| COMMUNICATION                | Via SL60-READER (USB Powered NFC 13.56MHz)                                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            |                                   |               |
| DOWNLOAD SPEED               | 60 seconds for 5,000 readings                                                                                                                                                                                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            |                                   |               |
| PC SOFTWARE                  | TempIT5 (Compatible with Microsoft Windows 7, 8, 10 & 11)                                                                                                                                                                                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            |                                   |               |
| LOGGING MODE                 | Stop when full                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            |                                   |               |
| START MODES                  |                                                                                                                                                                                                                                                                                |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   |                                   |                                                                            |                                   |               |
| Immediate                    | Yes                                                                                                                                                                                                                                                                            |         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                   |                                   |                                                                            |                                   |               |
| Delayed Start                | Yes                                                                                                                                                                                                                                                                            |         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                   |                                   |                                                                            |                                   |               |
| Start on Level               | No                                                                                                                                                                                                                                                                             |         | Yes (Level Start is checked every 3 seconds).                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                                   |                                   |                                                                            |                                   |               |
| Delayed Start, Then Level    | No                                                                                                                                                                                                                                                                             |         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                   |                                   |                                                                            |                                   |               |
| FOOD-SAFE APPROVALS          | EN12830:2018<br>Class 0.5                                                                                                                                                                                                                                                      |         | EN<br>12830:<br>2018<br>Class 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EN<br>12830:<br>2018<br>Class 0.2 | EN<br>12830:<br>2018<br>Class 0.5 | EN<br>12830:<br>2018<br>Class 0.2 | EN<br>12830:<br>2018<br>Class 0.5                                          | EN<br>12830:<br>2018<br>Class 0.2 |               |

## MECHANICAL OVERVIEW



## HUMIDITY SENSOR EXPOSURE TO CONTAMINANTS (SL64TH & SL64TH-A ONLY)

Humidity sensors must not be exposed to articles or volatile chemicals such as solvents or other inorganic compounds. Typical ambient conditions do not present a significant risk for chemical exposure but some applications may contain a known source of volatile Contamination so exposure to a range of chemicals should be avoided.

Exposure to the following chemicals is known to cause drift of the humidity output readings are often irreversible.

| SOLVENTS                                                                                                                                                                                                                                                                                                  | ACIDS SUCH AS:                                                                | OTHER CHEMICALS, INCLUDING:                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Toluene: $C_7H_8$<br>Isopropyl Alcohol: $C_3H_8O$<br>Ethyl Acetate: $C_4H_8O_2$<br>Acetone: $(CH_3)_2CO$<br>Ethylene Glycol: $(CH_2OH)_2$<br>Butyl Acetate: $C_6H_{12}O_2$<br>Ethanol: $C_2H_6O$<br>Di-isopropyl Ether: $C_6H_{14}O$<br><br>Methanol: $CH_3OH$<br>Methyl Ethyl Ketone: $CH_3C(O)CH_2CH_3$ | Hydrochloric Acid: $HCl$<br>Sulphuric Acid: $H_2SO_4$<br>Nitric Acid: $HNO_3$ | Ketenes<br>Ammonia: $NH_3$<br>Hydrogen Peroxide: $H_2O_2$<br>Ozone: $O_3$<br>Formaldehyde: $CH_2O$ |

Such chemicals are integral to epoxies, glues, adhesives, or reaction by-products that outgas during baking and curing processes.

If it is necessary to expose the relative humidity sensor to contaminants, concentration and exposure time should be reduced as feasible. Good ventilation (fresh air supply) aids in lowering the concentration of volatile chemicals, particularly solvents.

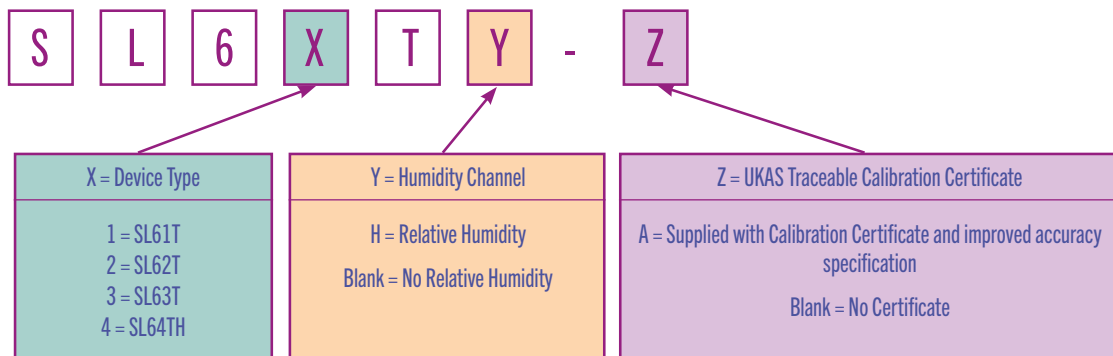
## CALIBRATION & RE-CALIBRATION SERVICE

Signatrol can provide you with an individual **UKAS ISO 17025 traceable calibration certificate** with each new data logger as an option \*standard on all 'A' versions). In addition, we can also provide you with a 3-day turnaround UKAS ISO 17025 traceable re-calibration service for your existing data loggers (on a return-to-factory basis).

We recommend that all our loggers are re-calibrated on at least an annual basis to ensure that they continue to perform to specification. We provide our standard 3-point default re-calibration or your own custom 3-point calibration range at no additional cost. Extra points can be added at an additional cost if required. Please contact [sales@signatrol.com](mailto:sales@signatrol.com) for your calibration requirements.

## ORDER CODES

### INDIVIDUAL DATA LOGGERS



## STARTER KITS

Starter kits are available providing you with everything you need to get going.

### THE KIT INCLUDES:

- For the "A" versions, each data logger comes with an individual 3-point UKAS traceable calibration certificate at default points, but you may specify different calibration points more suitable to your application.
- Either 2 or 5 data loggers of your choice
- TempIT5-Pro Microsoft Windows Application Software.
- SL60-READER NFC reader (inc USB cable).

### HOW TO ORDER KITS:

[Logger Code]-KIT-2 Kit containing 2 loggers, SL60 reader and TempIT5-PRO software

[Logger Code]-KIT-5 Kit containing 5 loggers, SL60 reader and TempIT5-PRO software

## DLOG - MINIATURE DATA LOGGER ACCESSORIES



### SL60-ACC01

Pack of five adhesive backed hook and loop pads for fixing all SL60 dLog data loggers. SL60-ACC01 is perfect for use on PVC, Vinyl and other surfaces containing plasticisers. It can also be used on most other surfaces, including metal, glass, wood, rigid plastic and card.

|                   |                                  |
|-------------------|----------------------------------|
| DIAMETER          | 19mm                             |
| TEMPERATURE RANGE | -20°C to +120°C (-4°F to +248°F) |



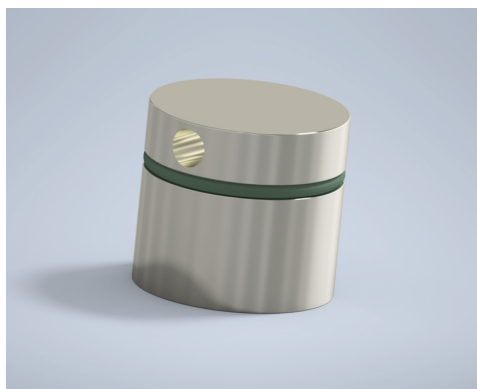
### SL60-ACC02

Rubberised holder suitable for use with all SL60 series dLog data loggers. The rubberised holder provides a quick and easy method for mounting the miniature data loggers.

You have the option of using the mounting hole or the strong, rare earth magnet that is fixed to the back of the holder.

Maximum operating temperature is +50°C (+122°F)

|            |                    |
|------------|--------------------|
| DIMENSIONS | 69mm x 57mm x 15mm |
| MATERIAL   | PVC                |



### SL60-ACC03

Stainless steel enclosure that protects the SL60 series dLog data loggers in harsh environments or where there is likely to be pressurised steam, such as in autoclaves, sterilisers or pasteurisers.

|                                 |                                 |
|---------------------------------|---------------------------------|
| MATERIAL                        | 19mm                            |
| PROTECTION                      | Up to 3.5 Bar or 35m submersion |
| RESPONSE TIME IN WATER OR STEAM | 99 Seconds (T63)                |
| RESPONSE TIME IN AIR            | 516 Seconds (T63)               |
| DIMENSIONS                      | 26mm Diameter x 25mm High       |

*Every effort has been taken to ensure the accuracy of this specification and we reserve the right of amendment without prior notice.*