

## INTRODUCTION

Signatrol offer a range of water-tight secondary enclosures that have been developed to protect the SL50 series of data logging buttons. These are especially recommended when the button logger is likely or expected to be subjected to pressure variations or is likely to into contact with fluids.

Use of the enclosure slows the response time as detailed in the tables below. To download the logged temperature data, the logger needs to be taken out of the enclosure. The maximum operating temperature is defined by the type of data logger used.



### SL50-ACC01

Material	316 Stainless Steel
Protection	Up to 10 Bar or 100m submersion
Response Time - With SL51T inside - in water. 63% Step Change 10 to 90% Step Change	73 Seconds 142 Seconds
Response Time - With SL51T inside - in air. 63% Step Change 10 to 90% Step Change	373 Seconds 717 Seconds
O-Ring	Silicone BS115

### ORDER CODE

SL50-ACC01 Stainless Steel Enclosure

### SL50-ACC03

Material	Polyphenylene Sulphide*
Protection	Up to 1 Bar or 10m submersion
Response Time - With SL51T inside - in water. 63% Step Change 10 to 90% Step Change	118 Seconds 237 Seconds
Response Time - With SL51T inside - in air. 63% Step Change 10 to 90% Step Change	407 Seconds 827 Seconds
O-Ring	Silicone S500-70 FDA Approved



### ORDER CODE

SL50-ACC03 Plastic Enclosure

\* The injection molding compounds (Ryton® PPS) used in the SL50-ACC03 are subject to the general safety provisions of the U.S. Food, Drug and Cosmetic Act. It is the responsibility of the purchaser/user the enclosure to determine the safety and suitability of the injection molding compounds for their specific application.

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Data Logging Solutions

## SL50-ACC06

Material	Silicone Rubber*
Protection	Up to 0.5 Bar or 5m submersion
Response Time - With SL51T inside - in water. 63% Step Change 10 to 90% Step Change	90 Seconds 243 Seconds
Response Time - With SL51T inside - in air. 63% Step Change 10 to 90% Step Change	270 Seconds 575 Seconds



## ORDER CODES

SL50-ACC06-PK5 Pack of Five Silicone Enclosures

SL50-ACC06-PK10 Pack of Ten Silicone Enclosures

\* Silicone material trade name - Thermoflex compound No 2850R. Minimum operating Temperature -50°C (-58°F). Maximum operating temperature +316°C (+600°F). Please note Maximum operating temperature with SL51T or SL52T data loggers is +85°C (+185°F). When used with the SL53T data loggers, the maximum operating temperature is +125°C (+257°F) and when used with the SL55T, the maximum operating temperature is +140°C (284°F)

## SL50-ACC10 - FAST RESPONSE ENCLOSURE



Material	Hard Anodised Aluminum Casing 316 Stainless Steel Screw
Protection	Up to 3.5 Bar or 35m submersion
Response Time - With SL51T inside - in water. 63% Step Change 10 to 90% Step Change	28 Seconds 60 Seconds
Response Time - With SL51T inside - in air. 63% Step Change 10 to 90% Step Change	117 Seconds 238 Seconds
O-Ring	FDA Food Grade EPDM. See below for more details.

## ORDER CODES

SL50-ACC10 Aluminium Enclosure

SL50-ACC11 10mL Non Toxic Seal Lubricating Oil

### Ethylene Propylene Elastomer EPDM Compound - O-Ring used in the SL50-ACC10

Description	Black, Ethylene Propylene Rubber EPDM, NSF 61, KTW, WRAS, OVGM approved, FDA compliant .
Temperature Range	-40 to +140°C depending on sealing medium and application.
Chemistry	Co-polymer of ethylene and propylene, or terpolymer with butadiene
Approved To	ANSI/NSF Standard 61 (Hot Applications) for potable water
Conformance To	ASTM D2000 M4CA710, A25, B35, C32, EA14, F17.
FDA Compliance	Material formulated and compliant with FDA regulations 21 CFR sect. 177.2600.
Application	Excellent resistance to water, acids and alkalis. EPDM is also highly resistant to oxygen, ozone and weathering.
Limitations	Poor resistance to oil, gasoline and hydrocarbon solvents.