



## Fastening System for food packages



**A system for fixing high temperature dataloggers to cans, tins, lids etc.**

Tecnosoft has all the solutions to your temperature monitoring requirements, not only by providing you with high accuracy data loggers, but also with accessories that cater for specific uses and applications.

This patented fastening system can be applied to cans, metal lids, tins and other containers and allows you to insert the probes of our pasteurisation and sterilisation data loggers in the receptacle at the desired depth. In this manner you will monitor the temperature at the core of the product without altering its mass, thus obtaining optimum readings. This system is easily implemented and may also be applied to pressurized cans, such as those used for beer: this allows you to set up a "dummy can" and re-use it several times to monitor your process. The readings can be taken directly off the dummy unit without having to disconnect it from the can, thanks to a PC interface equipped with special clips.

### Features

- simple installation;
- can be applied to any type of can, lid or container;
- can also be applied to pressurized cans; the product will not leak out during the monitoring process;
- no need to remove the logger from the can when downloading readings to the PC, thanks to the dedicated interface with clips;
- a single logger for different containers: simply adjust the probe depth.

### The System

The system is made up of:


- riveting tool;
- threaded insert;
- locking nut;
- temperature data logger.




The range of applications catered for by the new Fastening System for Tecnosoft temperature data loggers; for reliable and improved monitoring of food processes employing different types of containers and materials, including pressurized cans.


## Dataloggers compatible with the system

The **Fastening System** can be used with most of the sterilisation and pasteurisation data loggers from Tecnosoft: the list below shows compatible devices and how the system may be employed.

	<b>SterilDisk Probe &amp; PasteurDisk Probe</b>	
	<b>Tools needed</b>	Riveting tool, threaded inserts (M 5)
	<b>Compatible Probes</b>	The loggers come with a standard, compatible probe
	<b>Features</b>	The threaded part of the probe is screwed into the threaded insert

	<b>SterilCyl &amp; PasteurCyl</b>	
	<b>SterilCyl Radio &amp; PasteurCyl Radio</b>	
	<b>Tools needed</b>	Riveting tool, threaded inserts, locking nut
	<b>Compatible Probes</b>	3 mm diameter, any length (minimum 40 mm)
<b>Features</b>	<ul style="list-style-type: none"> <li>- Possibility to adjust the depth of the probe</li> <li>- May be used on pressurized cans</li> <li>- may be connected to the PC without disassembling the logger from the product being monitored</li> </ul>	

## One System, Many Solutions

	<b>SterilDisk Probe &amp; PasteurDisk Probe</b>	
	<b>Probe</b>	Diameter 4.2 mm Length 50 mm
	<b>Threaded part</b>	M 5
	<p>The SterilDisk/PasteurDisk probe is fully inserted and screwed into the threaded insert inside the can (or lid).</p> <p><b>Applications</b></p> <p>There are many possible applications, from monitoring canned products to jars for jams or other foodstuffs. The probe measures temperature at the core of the product and responds quickly: simply download the data and check the temperature curve.</p> <p>With this fastening system there is no need to place the logger inside the jar or can and therefore it is much easier to identify it after the process. It may be removed from the product without losing the contents and you do not have to clean the data logger itself, apart from the probe.</p> <p>F0 and PU (pasteurization units) are automatically computed by the SPD software to give you an immediate indication of the validity of your process.</p> <p>You can choose between the PasteurDisk (100°C) and SterilDisk (140°C) according to the maximum temperature of your process. Both can withstand high pressure and are entirely food grade.</p>	

## Where to position the Fastening System

The Fastening System can be mounted on any type of surface, be it flat like that of a lid or curved like that of the tin shown below. Moreover, it can be used in pressurized cans.

Monitoring the temperature in pressurized cans, such as beer or soda cans, may be a daunting task: in order to monitor the temperature in conditions as close to actual as possible, you need to have the right amount of product in the can, at the correct pressure and also the product must not leak during the process. The Fastening System from Tecnosoft grants you all this and more: you can keep your own dummy can, and re-use it several times, without having to remove the logger when reading data.

Preparing the can is simple: drill a hole on the back (Some product will exit this hole so simply refill the can until it holds the right amount of product. Place the threaded insert, with its o-ring, in the hole and secure it with the riveting tool provided in the kit. Place the locking nut and all its components on the probe of the logger and screw it into the threaded insert, adjusting the depth of the probe as required. If you use the SterilCyl or PasteurCyl Radio just sit at your PC and view the data in real time as it is received over the wireless link.



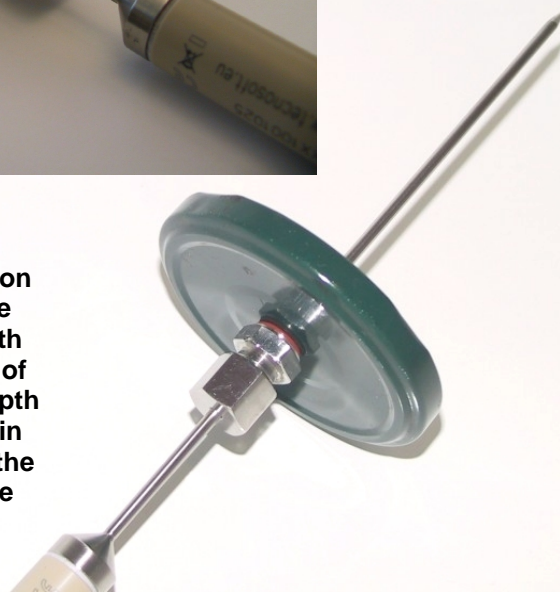
### SterilCyl & PasteurCyl

Probe	Diameter 3 mm
	Length 60, 125 mm or on demand
Locking Nut	Yes



**SterilCyl** fitted on a tin of canned fish; shows use of the locking nut and the threaded insert on a sharply curved surface

**SterilCyl** fitted on a lid using the locking nut with the possibility of adjusting its depth inside the jar, in order to reach the product's core



## Adjusting the depth of the probe with the Locking Nut

The locking nut is used to fix the 3mm diameter Probe of the SterilCyl, PasteurCyl, SterilCyl Radio and PasteurCyl Radio to the Fastening System at the desired depth. It may be applied to lids, cans, containers and on almost every type of surface. This means that with a single logger you can monitor different types of product, since you can regulate the depth of the probe inside the container (as shown in the pictures below).

This operation is quick, simple and allows perfect monitoring of the temperature of your products after which you may adjust your process parameters according to the measurements obtained. By means of a special interface with clips you don't even have to remove the logger from the container to download the data.

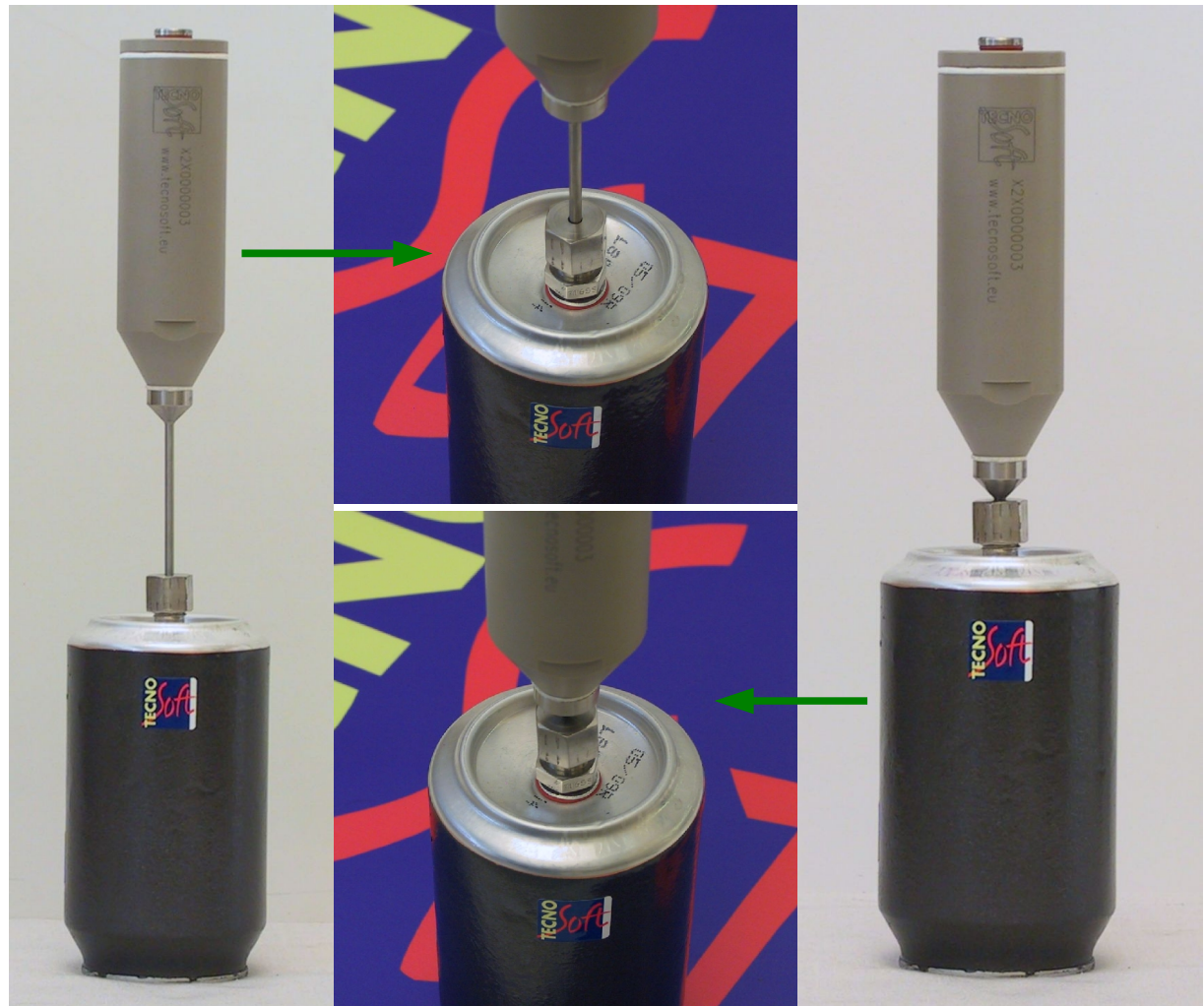
The Fastening System and the locking nut can be used on the 3 mm diameter Probe of the SterilCyl/PasteurCyl family of data loggers.

The threaded insert and the locking nut are supplied, along with the Fastening System tools.

Purchase one logger with a Probe of the right length for all your requirements: you can use it on any type of container, simply adjusting its depth thanks to the Locking Nut.

### SterilCyl Radio & PasteurCyl Radio

<b>Probe</b>	Diameter 3 mm Length 60, 125 mm or on demand
<b>Locking Nut</b>	Yes
<b>Wireless Transmission</b>	Yes



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