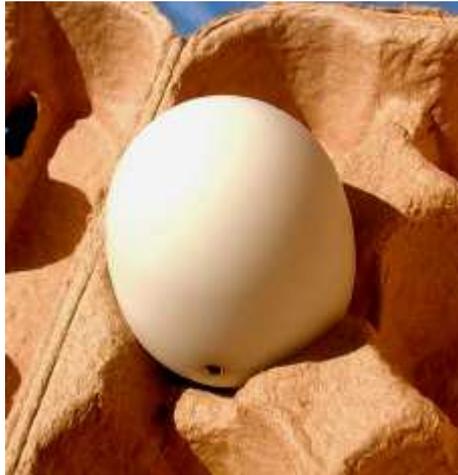


Escort Junior Egg Logger



User Manual

V2.0a 24/11/2000

Applies to Escort Junior Egg Logger Part # EJ-EG-B-16

Overview

The Escort Junior Egg Logger is packaged in a plastic egg shaped case and is designed to measure egg temperature in cartons during transport and storage or during the incubation process. It can also be used in any other application that prohibits the use of a standard Junior logger due to size requirements. The case is made from Acetyl plastic, is of similar weight to a real egg and can be placed in a standard size egg carton.

The Escort Junior Egg Logger is designed to operate in temperatures between -20°C to up to $+60^{\circ}\text{C}$.

The logger has one internal sensor, which is situated in the centre of the logger to simulate the response time of an actual egg.

Using the Egg Logger

The logger is programmed and downloaded using *Escort for Windows* software v1.60 or later. It is connected to the PC via a special interface cable plugged into a communication socket on the side of the egg to allow communication (see Illustration on right).

Refer to the Software User Manual for details on programming and reading data from the logger.

During programming, the user software provides various options that include sampling interval, number of samples to take and type of logging start (Magnet or at a specific time).

To start an Egg logger that has been programmed for Magnet start, swipe the keyring magnet over the magnet symbol (see arrow) on the product code label until the familiar Junior start-up beep is heard from the logger.



Place the logger into the environment to be monitored.

The Egg logger is NOT rated for immersion, and is also NOT designed to monitor Egg temperature during boiling processes.

Maintenance-Battery Change

The Egg Logger uses a standard Junior Battery.



ONLY REPLACE WITH A 3.6V LITHIUM BATTERY, 1/2 AA SIZE.

WE RECOMMEND YOU USE BATTERIES FROM A REPUTABLE MANUFACTURER ONLY.

To replace battery undertake the following steps:

Step 1

Remove the screw on the end of the logger casing until it protrudes approx. 5 mm.

This unscrews anticlockwise.

Step 2:

Presses gently onto the screw until the two egg halves come apart. If required, assist with a thin blade inserted into the slot.

Once the two halves are apart, completely remove the screw. Be careful not to get any dirt or



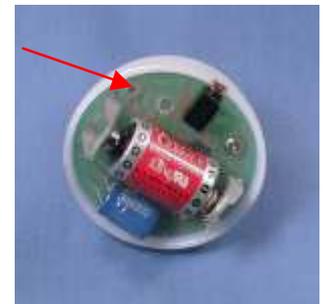
grit on the connecting surfaces.

Step 3:

Remove old battery and replace with new battery.

Note that the battery should be slightly greased.

Observe correct polarity of battery. Positive side (+) of battery should be close to the red dot as shown in the illustration on the right (See arrow). The negative side (-) of the battery should contact the spring.



Step 4

Carefully put two halves back together. Replace screw and tighten firmly, but do not overtighten.

Important Safety Messages



WHEN USING AN EGG LOGGER YOU MUST TAKE APPROPRIATE STEPS TO ENSURE THE EGG CAN NOT BE MISTAKEN FOR A REAL EGG BY THE RECIPIENT AND CAUSE SUBSEQUENT DAMAGE. TECH INNOVATORS LTD DOES NOT ACCEPT ANY LIABILITY FOR DAMAGES ARISING FROM ANY SUCH MISINTERPRETATION.

ENSURE THAT THE ENVIRONMENT THE LOGGER IS TO BE SUBJECTED TO IS WITHIN RATINGS DEFINED IN THE PRODUCT'S SPECIFICATIONS. THE EGG LOGGER MUST NOT BE EXPOSED TO TEMPERATURES ABOVE 85°C / 185°F .

THE EGG LOGGER MUST NOT BE USED IN A MICROWAVE OVEN.

YOU MUST NOT SWALLOW THE EGG LOGGER.

SPECIFICATIONS

Escort Junior Temperature Recorder

Version: Egg Logger - Internal Temperature Sensor

Product Code: EJ-EG-B



Summary

This internal sensor Junior is packaged in a plastic egg shaped case and is designed to measure egg temperature in cartons during transport and storage or during the incubation process.

Accessories

Interface and Windows software	EG-INT-WIN	PC interface and Windows software
Start magnet	JA-KEY	Start magnet in form of keyring

Specifications (standard configuration)

Operating Temperature	-20/60°C
Storage temperature	-40/85°C
Memory	16,000 samples
Weight	63 grams
Temperature response	T90 of 12 min. in moving air
Time and date	Real time clock, accuracy better than 40 secs. per month at ambient
Traceability	Temperature Calibration can be provided to ISO 9002
Sampling frequency	1 to 255 minutes, 5 to 59 seconds
Power source	User replaceable lithium battery
Typical battery life	1 to 2 years (dependant on frequency of PC communication)
Case material	Acetyl
IP Rating	IP51
Size	Egg shape: Height: 58mm, Largest diameter: 45mm
Data recovery	Via interface and IBM compatible PC
Software	Windows for 3.1, 95, 98, ME, 2000 and NT
Recorder start up	Programmed time and date or magnet swipe
Warranty	12 months (excluding batteries)

DISCLAIMER:

Tech Innovators reserve the right to change the specifications without notice.

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