

Cool Down Logger

Version: Temperature Recorder with external sensor
for monitoring the cooling of processed food

Product Code: EC-OE-C-L



Product Description:

Purpose built to comply with regulations by the United States Federal Drug Administration regarding the cooling process of processed food, which specify that once food has cooled to temperatures below +60 °C, it must be cooled down to below + 5°C within 6 hours. The logger is triggered by the temperature falling below +60 °C, and the logger records the time and date of this event. The cool down process is then monitored by taking three temperature readings: One after 2 hours when the food must have cooled to temperatures below +21 °C, the second after 4 hours and the third reading after 6 hours, when temperature should be below + 5°C. At the end of this process, the Cool Down logger displays a PASS or FAIL message depending on whether the temperature limits have been achieved in the specified time frame.

Technical Specifications

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| Sensor | Measurement range -20°C to +100°C, accuracy $\pm 0.6^\circ\text{C}$, average resolution $0,6^\circ\text{C}$; sensor cable length 1m, stainless steel tip 80mm |
| Logger | Operating temperature -20°C to +70°C, size 80mm X 57mm X 22mm (excluding lug and sensor), weight 70 grams, case material ABS |
| Display | LCD 6 digits, scrolling through status and measurements taken |
| Temperature Response | T90 of 4 Minutes in moving Air, 35 seconds in liquid or in intimate contact with solid (depending of probe insertion depth) |
| Time and Date | Real Time clock, accuracy ± 1 minute per month, automatic adjustment for daylight savings and leap years. |
| Traceability | Temperature Calibration can be provided to ISO 9002 |
| Recorder Start up | After pressing the Start button, the logger will start the program once the temperature measured falls below +60°C. |
| Sampling frequency | Logger will record data points at 2 hour intervals for 6 hours |
| Reprogramming | Start button press to clear and reset Logger after session completed or long (12 second) button press during session |
| Software | Simple program to set the clock and preferences for time and date formats and temperature units. |
| Programming | Via IBM compatible PC, connection with standard DB9 extension |
| Power Source | 3V lithium Battery, user replaceable |
| Typical Battery Life | 14 months; Low Battery Indication |
| IP Rating | IP51 |
| Warranty | 24 Months, excluding batteries |

Patent Pending

ESCORT Data Logging Systems reserve the right to change the specifications without notice.