

## Cool Down Logger

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

**Product Code:** 0100.210



### 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

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 $\pm 1$ 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**