



www.temprecord.com

MEDICAL – Advanced Multi Use



- ▶ **Accurate & Reliable** – Proven Temprecord performance, when product integrity is critical!
- ▶ **Applications** – Monitoring of critical medical temperature-sensitive products during research, scientific testing, production/processing, storage and transit. Uses include monitoring critical pharmaceuticals, research products and equipment or process/manufacture environments. Capable of monitoring temperatures as low as -50°C/-58°F.
- ▶ 32K non-volatile memory
- ▶ Calibrated temperature accuracy is 0.2°C / 0.35°F (Logger Case temperature range is -50°C to +60°C or -58°F to +140°F)
- ▶ 3-Point Calibration built into logger:
 - superior accuracy guarantee
 - no need for corrections or complex calculations to be applied to downloaded data
 - avoids human data entry errors, providing data integrity and peace of mind
- ▶ Calibrated and corrected at 3-Points to ISO/IEC 17025 Calibration Laboratory Standards
 - traceable Calibration Certificate included
- ▶ Temperature Units: °C or °F
- ▶ Display Resolution: 0.01°C or 0.01°F
- ▶ TRW software:
 - Hi-speed download
 - Serial RS-232 or USB connectivity
 - compatible with Windows XP, Vista and Windows 7
- ▶ Compliance made easy with automated PDF report generation. Use speed-buttons from TRW software to:
 - save as *.TR and/or *.PDF files
 - export to MS Excel – part or all samples
 - email
 - print
- ▶ Save time with Auto Mode (for batch programming):
 - Start / Stop / Status display
 - download/read recorded data
 - save downloaded file as *.TR or *.PDF
 - print file
 - email file
 - reuse logger
- ▶ Fully welded food grade plastic case
 - FDA approved
 - recyclable
- ▶ Case protection rating: waterproof to IP67 or NEMA 6



MEDICAL ADVANCED MULTI USE

Low Temperature Range

The Medical data loggers are fitted with long-life Lithium Thionyl Chloride (3.6V) batteries with a wide operating temperature range, allowing low temperature recordings down to $-50^{\circ}\text{C}/-58^{\circ}\text{F}$.

Accuracy & Traceability – Calibrated to $0.2^{\circ}\text{C} / 0.35^{\circ}\text{F}$

The Medical data loggers go through a 3-Point calibration and correction process during manufacturing. The corrections are then applied to each data logger. Traceable Calibration Certificates are included with each logger from our ISO/IEC 17025 accredited laboratory. PDF copies of Calibration Certificates are also downloadable from the web site: www.temprecord.com/certificates.html

32K Non-volatile Memory

The Medical Advanced Multi Use data logger supports 32K of memory (32,511 samples). User-configurable sample period provides from 16 hours up to 2 years of data recordings.

LED Status Indicators

'Within limits' (Green) LED Indicator and 'Out of limits' (Red) LED Indicator allow instant confirmation of recorded data being within or outside of specified upper and lower temperature range.

Push Button Start/Stop or Mark

The Push Button (when enabled) allows User to 'Start' or 'Stop' the data logger anywhere without needing sophisticated software or hardware in the field. During recording, indication 'Markers' can be included for future reference by pressing the button for two seconds until the red LED flashes two times. If button disabled then the logger can be started or stopped using Temprecord for Windows (TRW) software – available FREE!

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Case Protection Rating

Waterproof to IP67 or NEMA 6 rated. Ultrasonically welded plastic case is durable in extreme conditions. FDA approved food grade casing.

LED Status Indicators

The 'Out of limits' (Red) LED Indicator and 'Within limits' (Green) LED Indicator allow instant confirmation of recorded data being within the specified temperature range. Software setup allows the selection of range limits and the number of samples out of range to activate the alarm feature.

Push Button

Integrated Push Button feature allows User to 'Start' or 'Stop' data logger in the field. Also allows for the setting of indication 'Markers' during data recording for future reference. Functionality of the Push Button can be enabled or disabled through TRW software.

Retaining Hole

Fully moulded and ultrasonically welded retaining hole for easy securing of the data logger within different environments.

Parameter	Specifications
Model	MEDICAL – Advanced Multi Use Temperature Data Logger
Memory	32K Non-volatile
Sample Capacity	Approx. 32,511 samples minimum
Sample Period	Programmable between 2 seconds and 36 hours in 2 second increments
Start Delay	Programmable between 10 seconds and 36 hours
Start and Stop	Logger Button (if enabled), Palm PDA/Reader, TRW Software/Reader
Recording Duration	16 hours to 2 years
Operating Temperature Range of Case	$-50^{\circ}\text{C} \sim +60^{\circ}\text{C}$, $-58^{\circ}\text{F} \sim +140^{\circ}\text{F}$
Operating Temperature Range of Data Logger	$-50^{\circ}\text{C} \sim +60^{\circ}\text{C}$, $-58^{\circ}\text{F} \sim +140^{\circ}\text{F}$
*Temperature Accuracy	$0.2^{\circ}\text{C} / 0.35^{\circ}\text{F}$ over the range $-20^{\circ}\text{C} / -4^{\circ}\text{F}$ to $+50^{\circ}\text{C} / +122^{\circ}\text{F}$ else $0.5^{\circ}\text{C} / 0.9^{\circ}\text{F}$
Display Resolution	0.01°C or 0.01°F
Within Limits Indicator	One flash from Green LED Indicator every 10 seconds
Out of Limits Indicator	One flash from Red LED Indicator every 10 seconds
Battery Type	Lithium Thionyl Chloride (3.6V)
Dimensions	$129 \times 73.5 \times 14\text{mm}$ or $5\frac{1}{8} \times 2\frac{7}{8} \times \frac{5}{8}$ inches
Weight	83g or 2.92oz
Case Colour	Blue
Case and Protection Rating	IP67 or NEMA 6. Fully welded FDA approved food grade casing
Warranty Period	2 years on data logger from date of purchase 2 years on battery

*Accuracy is calibrated with a traceable reference thermometer to 0.2°C (0.35°F) at temperatures -15°C , 0°C and $+40^{\circ}\text{C}$