LogTag®

TICT

TEMPERATURE INDICATOR

Monitoring Display
LOAD OK

Monitoring Display : LOAD REJECT

The **LogTag TICT** is a low cost disposable electronic temperature indicator for use in monitoring temperature & time statistics in transport applications of up to 45 days duration.

The LogTag TICT can monitor and record statistics against four factory pre-set temperature limits for up to 45 days, displaying a tick mark if environmental conditions remain within limits. If temperatures exceed two high temperature alarm limits or go below two low temperature alarm limits, the LCD shows a REJECT alert, indicating the goods require further checking.

The LogTag TICT is factory pre-configured for one of a range of monitoring profiles. Special profiles are available on request, subject to conditions.

Statistical data can be downloaded from the TICT using the LogTag Indicator interface cradle and freely available LogTag Analyzer operating software if required.

The TICT offers an accurate and cost effective solution for monitoring the cold chain in "last mile" distribution and other applications where full data logging capability is not required.

LogTag® Recorders

www.logtag-recorders.com

Features

- Factory pre-configured to monitor a range of products including standard vaccines.
- Standard 60 minute start delay
- Clear indication of alarm status at all times.
- Monitors for up to 45days
- Push button Start and Stop.
- Data can be downloaded via an interface cradle and LogTag Analyzer if required.
- Robust and Accurate. Data collected is secure and cannot be manipulated.
- Fits easily into packages and can be mailed via letter rate.

Modes of Operation

Ready Mode
Push the START/STOP button. "Ready" shows that the indicator is ready to be started.

Start delay mode
Press and hold the START/STOP button. "RUN" will flash. Release button when flashing stops. The Indicator now begins the preset start delay.

Run Mode
"RUN" appears on the display. The indicator is now taking a temperature reading at the factory stipulated interval (typically every 5 minutes). If an Alarm occurs the ✓ symbol is replaced by an X symbol and the corresponding alarm limit code (HT1, HT2, LT1 or LT2) is also displayed.

Stopped Mode
Press and Hold the START/STOP button. "Stopped" will flash. Release button when flashing stops. The Indicator now no longer takes readings.

Factory Configurations

LogTag TICT can be factory configured to support a large range of different monitoring and alarm configurations (see specifications over page for details).

Example configuration

Sampling interval : 5 minutes

Start Delay: 60 minutes

HT1 alarm: ≥10℃ instant

HT2 alarm: ≥ 8℃ accumulated for 8 hours

LT1 alarm: ≤ 2℃ accumulated for 12 hours

LT2 alarm: ≤ 0 ℃ instant

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Product Specifications

Operating Temperature Range
-25°C to +60°C

Storage Temperature Range
-25°C to +65°C

Ambient humidity range during transport and use
0 to 95%RH

Resolution
0.1°C or better in range of -25°C to+60°C

Accuracy
- Better than ±0.5°C for -10°C to +25°C
- Better than ±1°C for -25°C to -10°C
- Better than ±1°C for +25°C to +60°C

Capacity
- Minimum & Maximum temperature for each of the 45 days
- 1st activation of each Alarm for each day including Trigger time and duration of each excursion

Memory type
Non volatile

Sampling Interval
Factory set as required. Typically to 5 minute interval.

Logging modes
45 day statistics, temperature/time excursions and Alarm trigger time and duration for each day

Logging Start delay
Factory configuration, typically set to 60 minute interval

Sensor
Precision thermistor

Sensor Reaction time
T90 less than 7 minutes by method detailed in EN12830:1999

Vibration
Withstands vibration specification as detailed in EN12830:1999

Shock
- Withstands shock specification as detailed in EN12830:1999
- Withstand 5 drops 1m to smooth concrete floor without loss of function or calibration

Environmental
IEC 60529: IP64

Power source
3V Lithium battery – non replaceable

Battery life
- Minimum storage life of 18 Months before 'start'
- Monitoring period: 45 days
- Minimum accessibility (display) period of 6 months after 'stopped'

Size
71.5mm(H) x 33.0mm (W) x 8.6mm (T) (Volume < 21cm³)

Weight
19g

Case Material
Polycarbonate

Calibration
Covered by Certificate of Traceability. Calibration traceable to an ISO/IEC 17025 accredited testing laboratory, to NIST, or to another internationally recognized standards agency

EMC compliance
- EC EMC directives (EN 61000-6-1:2005 & EN 61000-6-3:2006)
- Includes electrostatic discharge as prescribed in EN 61000-4-2
- Complies with FCC Part 15 Subparts A and B

Alarms function & display
- Up to four alarm triggers are indicated on the display
- Display activates when button is pressed
- Display is static allowing photocopying

TICT

Function examples

READY Mode	Starting Indicator	Start delay mode	RUN Mode	RUN Mode
Press any button to wake up TICT into READY mode	To start the indicator monitoring, press and hold the START/STOP button until 'RUN' stops flashing then release button.	Start delay is active	Monitoring: • No alarm excursions	Monitoring: • HT1 alarm triggered
READY	RUN READY	DELAY	☑ RUN	HT1 RUN ☒

RUN Mode	Stopping	Stopped Mode
Monitoring: • HT1 alarm triggered • LT2 alarm triggered	To stop the indicator, press and hold the START/STOP button until 'STOP' stops flashing then release button.	Monitoring Stopped
HT1 RUN LT2 ☒	HT1 RUN LT2 ☒ STOP	HT1 LT2 ☒ STOP

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