LogTag®
TICT
iSO°Tag®

FREEZE INDICATOR

iSO°Tag®
FREEZE INDICATOR
LogTag® Recorders
S/N: 2095000072
START MARK

Monitoring Display
LOAD REJECT

iSO°Tag®
FREEZE INDICATOR
LogTag® Recorders
RUN
S/N: 2095000072
START MARK

Monitoring Display
LOAD OK

The LogTag® **TICT** **iSO°Tag®** is a tamper-proof, irreversible electronic indicator which shows if the temperature has been at or below freezing point (0°C or 32°F) for 60 minutes.

While the temperature remains above freezing point, the display shows a ✓ symbol. If the temperature drops below freezing point for 60 minutes or more, the display shows a ✗ symbol, which cannot be reset or deleted.

The **iSO°Tag®** can be used to monitor the temperature of any freeze-sensitive product such as vaccine, food, or specialty chemicals for up to 3 years. If a freezing event occurs the ✗ symbol is displayed and the indicator is locked. Once locked, the indicator cannot be re-used.

The **iSO°Tag®** is factory configured with a low temperature limit of -0.5°C for a duration of 60 minutes. The **iSO°Tag®** can also be factory configured for a different low temperature limit down to -5.0°C for monitoring items with lower freezing points. An optional upper Alarm limit is also available.

LogTag® Recorders

Features

- Factory pre-configured to monitor a range of products including standard vaccines.
- Clear indication of alarm status at all times.
- Monitors temperature and records daily statistics for up to 3 years
- 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.
- Up to three days of logged real time

Modes of Operation

Starting the Indicator
Press and hold the START/MARK button. "RUN" will flash. Release button when flashing stops. The Indicator enters factory preset delay or begins taking readings.

Monitoring
When "RUN" appears on the display, the indicator is taking a temperature reading at the pre-configured interval (typically every 5 minutes). If an Alarm occurs, the ✓ symbol is replaced by an ✗ symbol and the corresponding alarm arrow is also displayed.

Stopping
Press and hold the START/MARK button. First the arrows will flash, then "RUN". Release button when flashing stops. Indicator also stops when battery is empty or an alarm occurs.

Factory Configurations

LogTag **iSO°Tag®** can be factory configured to support a range of different monitoring and alarm configurations (see specifications over page for details).

Example configuration
Sampling interval : 5 minutes
Start delay: 2 hours
Stop button: disabled
Above temperature alarm:
    ≥10°C instant
Freezer Alarm:
    ≤ -1°C consecutive
    for 1 hour

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LogTag®

iS0°Tag®
FREEZE INDICATOR
LogTag® Recorders
RUN
START MARK
S/N: 2096000044

TICT - *iS0°Tag*®

Product Specifications

Model-Number
TICT-iS0°Tag®

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 1096 days
- Duration of excursion beyond alarm limits for each day
- Up to 270 recorded real time temperature values each before and after the alarm has triggered

Memory type
Non volatile

Sampling Interval
Factory set from 5 to 15 minutes, typically set to 5 minutes.

Logging modes
1096 day statistics with temperature/time excursions and a mark entry
540 real time readings

Logging Start delay
Factory configuration, typically set to 60 minutes

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 12 Months before 'start'
- Monitoring period: 1096 days (includes storage time)

Size
71.5mm(H) x 33.0mm (W) x 8.6mm (T) (Volume < 21cm^3)

Weight
19g

Case Material
Polycarbonate

Calibration
Covered by Certificate of Traceability. Calibration traceable to an ISO/IEC 17025 accredited testing laboratory.

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
- One low and one high alarm, indicated on the display
- Display always active to instantly show load status
- Display is static allowing photocopying

TICT-*iS0°Tag*®

Function examples

Starting Indicator
Starting the indicator: • press and hold the START/MARK button until RUN blinks; release button when steady

RUN
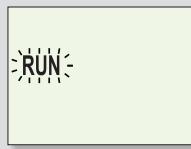
Start Delay
Start Delay Configured: • Bars blink alternating to indicate Start Delay
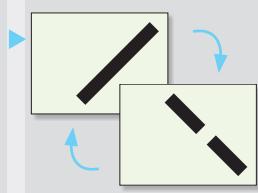
Monitoring - OK
Monitoring: • No alarm excursions

RUN ✓

Monitoring - Alarm
Monitoring: • Low temperature Alarm occurred
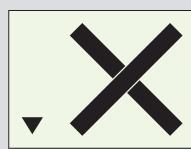
Placing a Mark
Marking a reading in the statistics: • Press and hold button until Arrows blink; release button when steady
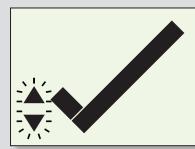
Software and Reporting
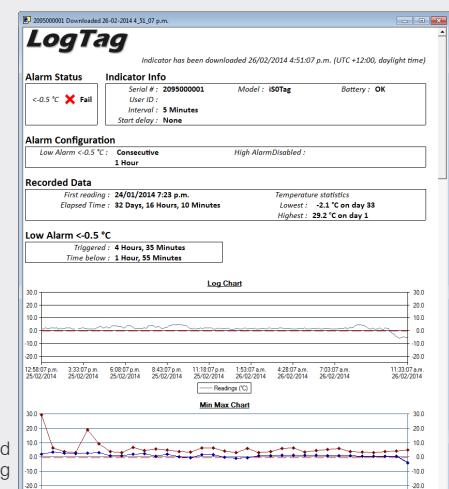
Report and Chart tabs for iS0°Tag
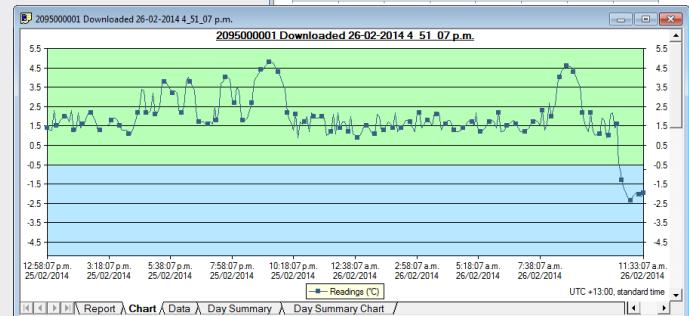
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