

# TempMark™ 8 Operating Instructions

The ShockWatch TempMark 8 provides a unique approach to monitoring the cold chain. With 8 preset temperature thresholds, it is possible to monitor a product's temperature environment with more detail than a single temperature indicator.

## Temperature Thresholds

The TempMark 8 monitors the following temperature thresholds:

Below -1C, 0C and 2C

Above 8C, 10C, 15C, 20C, and 25C



### Starting the TempMark 8

To launch the product, break the Green Tab on the lower right side of the TempMark8. The unit will display WAIT until sampling begins.



### Time Delay

Once launched, the TempMark 8 will display the current temperature when the review button is pushed. However, there is a 30 minute delay between launching the TempMark 8 and the beginning of alarm condition recording.

## Sampling Rate

The TempMark 8 takes a sample once per minute

## Alarms

Three alarm conditions are recorded for each temperature threshold. Alarms data is identified by three symbols: X, ⊕, Σ

X = number of **excursions** under a threshold (descending alarms) or over a threshold (ascending alarm) .

⊕ = number of **consecutive** samples under a threshold (descending alarms) or over a threshold (ascending alarm). Equates to the number of consecutive minutes under or over a threshold.

Σ = number of **cumulative** samples under a threshold (descending alarms) or over a threshold (ascending alarm). Equates to the number of cumulative minutes under or over a threshold.

When an alarm condition is triggered, the alarm symbol and the alarm number are displayed on the screen.



Alarm 1: -1C Descending

Alarm 3: 2C Descending

Alarm 5: 10C Ascending

Alarm 7: 20C Ascending

Alarm 2: 0C Descending

Alarm 4: 8C Ascending

Alarm 6: 15C Ascending

Alarm 8: 25C Ascending

## Alarm Review

In order to review the alarm results, press the REVIEW button on the front of the TempMark 8.



The first reading returned is the current temperature



Descending alarms are displayed with a downward arrow.  
Ex : Alarm 1, -1C descending



Ascending alarms are displayed with an upward arrow.  
Ex: Alarm 3, +8C ascending

Continue to press the review button to cycle through the alarm results.

## EXAMPLE



# of Excursions



# of Consecutive Samples



# of Cumulative Samples

Alarm1 (-1C) has been triggered. There was one excursion, 3 consecutive samples below the -1C limit and three cumulative samples below the -1C limit.

## Recording Period

The TempMark 8 is active for a period of 90 days after activation. After 90 days, the device will display LOW BAT on the screen. The device will no longer record but will store and report the results for a minimum period of 30 days.

## Storage and Handling

The TempMark 8 should be stored in a cool, dry location until ready for use. Once the product has been activated, the TempMark 8 should be handled by the housing with as minimal contact to the hand as possible in order to prevent measuring the temperature of the handler.

## Questions

Please contact ShockWatch at 800-466-0101 or [info@shockwatch.com](mailto:info@shockwatch.com).

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