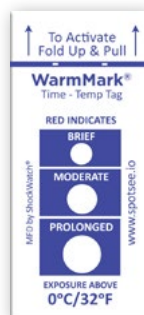# WarmMark Temperature Indicator User Manual
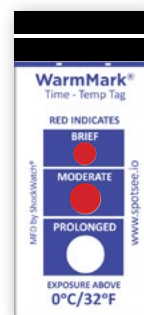
Arming & Use

1. All WarmMark breach window(s) should be white prior to arming the device.

2. Before arming, the WarmMark indicator should be placed in an environment at least 5°C (9°F) below the WarmMark's activation threshold temperature for a minimum of 30 minutes.

3. To arm the WarmMark indicator, fold up and pull out the indicator's activation tab until the tab and barrier film have been completely removed.

4. If using a WarmMark indicator with a threshold temperature below the ambient temperature, immediately place the indicator in the environment to be monitored to avoid early activation.

5. Remove the adhesive liner from the WarmMark and adhere the indicator to a clean, dry surface. The WarmMark should be located where it will be visible to the receiver of the monitored shipment. The WarmMark can be adhered directly to the product being monitored or located inside the packaging.
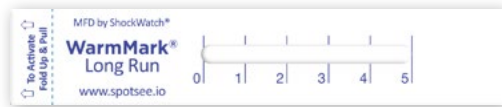

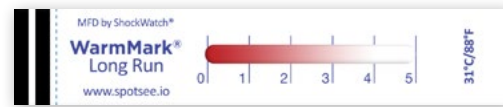**Inactive – WarmMark Short Run 1 Window**

Inactive – WarmMark Short Run 3 Window
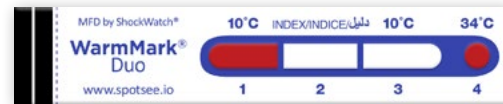

Armed and Activated

Inactive – WarmMark Long Run

Armed and Activated

Inactive – WarmMark Duo

Armed and Activated

Run Out Times

3 Window Indicators	Brief	Moderate	Prolonged
-18°C/0°F	1 hour	3 hours	12 hours
0°C/32°F / 8°C/46°F 10°C/50°F / 20°C/68°F	2 hours	12 hours	48 hours
5°C/41°F / 25°C/77°F 30°C/86°F / 37°C/99°F	30 minutes	2 hours	8 hours

1 Window Indicators			
8°C/46°F / 25°C/77°F	8 hours		
8°C/46°F	12 hours		

Long Run Indicators	Line 1	Line 2	Line 3	Line 4	Line 5
10°C/50°F / 31°C/88°F	12 hours	30 hours	60 hours	110 hours	168 hours

Duo Indicators	Window 1	Window 2	Window 3	Window 4
10°C/50°F	3 days	8 days	14 days	
34°C/93°F				within 20 minutes

Specifications

Accuracy of Temperature	±1°C/ ±2°F
Shelf Life / Storage	2 years from manufacturing date / Cool, dark place below activation temp, 35-55% RH