



The ShockWatch WarmMark® Duo is a cost-effective, disposable temperature indicator that monitors temperatures during shipping and storage, indicating whether goods have been subjected to unacceptable conditions.

## WarmMark Duo

These reliable temperature indicators provide visual evidence of exposure to unacceptable temperature levels, allowing you to determine if product quality has been compromised. They are ideal for products with a known temperature stability curve and expiration characteristics at certain time and temperature combinations.

WarmMark Duo indicates the duration of temperature exposure at two different activation temperature levels. If the windows in the WarmMark Duo indicator stay white, there's no problem. But if the temperature climbs beyond two specific thresholds, a red color moves through the windows of the indicator with the passage of time. If the temperature returns to below the threshold, the color stops moving. In this way, handlers and shippers can know how long the product was exposed above the threshold temperature.



## Benefits

- Monitor for the length of time above 10°C and for brief excursions above 34°C
- Know if a product has been exposed past a threshold and check for high temperature spikes.

Key Specifications			
<b>Activation Temperatures</b>	10°C and 34°C / 50°F and 93°F		
<b>Storage Conditions</b>	WarmMark indicators should be stored in a cool dark place below the activation temperature of the indicator and between 35-55% relative humidity (RH)		
<b>Shelf Life</b>	2 years from date of sale		
<b>Size</b>	0.4 x 3.9 x 0.1 in 10.2 x 99.1 x 2.54 mm		
<b>Adhesive</b>	Pressure-sensitive		
<b>Response Temperatures and Run-Out Time</b>	10°C / 50°F		34°C / 93°F
	Window 1	3 days	---
	Window 2	8 days	---
	Window 3	14 days	---
	Window 4	---	within 30 minutes