# SpotSee

## SpotSee® TiltWatch Indicators

When you are shipping networking equipment and electronics, glass and mirrors, or other equipment sensitive to tilt, you need something more than just a "This End Up" label.

### Tilt Indicators Overview

SpotSee tilt indicators detect unacceptable tilting on goods that must remain upright. When these indicators are used, the product cannot be tipped without indisputable evidence of mishandling.



### TiltWatch® XTR

The TiltWatch XTR is a single-use tip indicator used to monitor goods that must remain upright. When attached to a package, the TiltWatch XTR turns red if the package is tilted past 80°. The patented design ensures that the indicator remains unaffected by movement due to normal handling conditions or random vibrations.

### TiltWatch® Plus

TiltWatch Plus indicates whether there has been tilt to the left or right, the degree of the tilt, or if complete overturn has occurred.





### Benefits

- Reduces mishandling during transportation or storage
- Provides indisputable evidence of mishandling
- Alerts recipient to inspect contents before acceptance
- Promotes chain of accountability for all product handling
- Confirms effectiveness of packaging
- Helps identify trouble spots in supply chain, from production to transportation and storage
- Helps increase quality of product from dock to dock

**SHOCKWATCH®**

# SpotSee® TiltWatch Indicators

## Product Selection Guide

| | TiltWatch XTR | TiltWatch Plus |
|---|---|---|
| **Sensor Type** | Steel disc, non-metallic | Glass balls |
| **Arming Method** | Remove adhesive backing | Remove adhesive backing |
| **Serialized Barcode** | Yes | Yes |
| **Indicates Tilt Direction** | No | Yes |
| **Indicates Degrees of Tilt** | No | Yes |
| **Inversion Indicator** | No | Yes |
| **Activation Angle** | Greater than 80° | 30° with 10° increments to 90° |

## TiltWatch XTR - Specifications

| | |
|---|---|
| **Monitoring Range** | Single plane |
| **Tolerance** | ±5° at 20°C / 68°F, 1 ATM |
| **Operating Temperature and Humidity** | -40°C to 60°C / -40°F to 140°F 5-99% RH, non-condensing |
| **Adhesive** | 2 mil high tack acrylic |
| **Adhesive Shelf Life** | 2 years |
| **Composition** | Rigid polystyrene housing with non-magnetic steel indicator |
| **Dimensions** | 2.92in x 2.37in x 0.21in / 74.27mm x 60.31mm x 5.29mm |
| **Weight** | ~14.17g |
| **Installation** | Pressure-sensitive adhesive or holes to accommodate screws, nails, or staples |
| **Customization** | Private logos available Minimum quantity applies |

## TiltWatch Plus - Specifications

| | |
|---|---|
| **Monitoring Range** | Single plane and rollover |
| **Tolerance** | ±5° at 20°C / 68°F, 1 ATM |
| **Operating Temperature and Humidity** | -40°C to 60°C / -40°F to 140°F 5-99% RH, non-condensing |
| **Adhesive** | Vinyl acetate copolymer |
| **Adhesive Shelf Life** | 1 year |
| **Composition** | Clear PVC housing and glass indicator |
| **Dimensions** | 4.6in x 4.6in x 0.3in / 116.84mm x 116.84mm x 7.62mm |
| **Weight** | ~15.30g |
| **Installation** | Pressure-sensitive adhesive exposed when liner and arming pin are peeled away |

| Product Description | Part Number | Product Description | Part Number |
|---|---|---|---|
| **TiltWatch XTR*** | 24101 | **TiltWatch Plus*** (includes companion label) | 24114 |
| **TiltWatch XTR Companion Label** (200 labels/roll) | 26102 | **TiltWatch XTR Multilingual Companion Label:** English, Spanish, French, German (200 labels/roll) | 26119 |
| **TiltWatch XTR Companion Label** (500 labels/roll) | 26103 | **TiltWatch XTR Multilingual Companion Label:** English, Japanese, Korean, Chinese (200 labels/roll) | 26120 |

* Minimum Order Quanitity: 100