

# ShockWatch® Tilt Indicators



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

## ShockWatch Tilt Indicators Overview

ShockWatch 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®

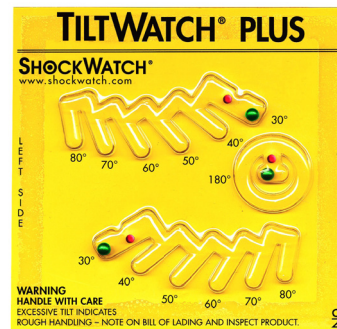
The TiltWatch XTR is a single-use tip indicator used to monitor goods that must remain upright. When attached to a package, the TiltWatch XTR turns red if the package is tilted past 80°. However, the indicator remains unaffected by movement due to normal handling conditions.



Tiltwatch XTR companion label

### 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
- Acts as a visual deterrent to improper handling
- 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



Tiltwatch Plus in this photo is featured with a companion label.

# ShockWatch® Impact/Tilt 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                | 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<br>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 /<br>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.<br>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<br>5-99% RH, non-condensing                    |
| Adhesive                           | Vinyl acetate copolymer   |
| Adhesive shelf life                | 1 year (before application)   |
| Composition                        | Clear PVC housing and glass indicator   |
| Dimensions                         | 4.6in x 4.6in x 0.3in<br>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 |
|---|-------------|
| TiltWatch XTR*                                  | 24101       |
| TiltWatch XTR Companion Label (200 labels/roll) | 26102       |
| TiltWatch XTR Companion Label (500 labels/roll) | 26103       |
| TiltWatch Plus* (includes companion label)      | 24114       |
| *Minimum Order Quantity: 100                    |             |

ShockWatch can help you set up a damage reduction program tailored to your unique circumstances. For more information, please contact your ShockWatch representative.



**SHOCKWATCH®**  
SMART SOLUTIONS FOR SAFE TRANSIT

5501 LBJ Freeway, Suite 350, Dallas, TX 75240 • +1 214-736-4580 • 800-527-9497 • www.shockwatch.com

Rev: 12/2013