

# TI-5 Touch

## Resistive Touch Technology

Touch International's TI-5 Touch analog resistive touch screen offers a top-of-the-line, responsive, accurate and affordable resistive touch solution. Ideal for high-volume applications requiring versatile input methods found in point-of-sale, industrial control and medical equipment markets, the 5-wire resistive touch screen is exceptionally durable and can be used in a variety of environments.

### At a Glance

- Fast, Accurate Response Time
- Superior Performance; Drift-free Operation
- Chemically Resistant
- Environmentally Robust
- Optically Clear
- Versatile Input - Finger, Gloved and Active Stylus
- Exceptionally Durable

### Applications

- Point of Sale (POS)
- Industrial
- Medical Devices
- Food Services
- Office Equipment
- Aerospace



As pioneers in touch screen engineering and manufacturing, Touch International's industry-proven 5-wire resistive technology delivers unparalleled flexibility in both construction and design. Providing enhanced optics, improved durability, a narrow border and a flexible design, the TI-5 Touch can be customized and manufactured to meet your expectations.

Backed by a five-year warranty and 35 million touches in a single location, TI-5 delivers fast, accurate response time, optical superiority, can be sealed against contamination and is highly resistant to chemicals, dirt, liquids and other harsh contaminants.

### Sensor Sizes

5.7"	10.3"	15.0"	17.5"	26.0"
6.4"	10.4"	15.1"	18.2"	
4.7"	10.6"	15.2"	19.0"	
7.0"	12.1"	15.4"	20.0"	
8.4"	12.2"	17.0"	21.0"	
8.9"	14.9"	17.1"	22.0"	

\*Custom Sizes Also Available



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TI-5 Touch has a flexible top layer separated from a glass substrate by small, clear non-conductive dot-like spacers. Both glass and plastic layers have conductive coatings so that when the two make contact, an electrical circuit is created and a signal flows to the control destination—usually a computer. One has to exert a certain amount of pressure to get the two layers to make contact. The touch instrument is usually a finger, but just about any kind of stylus will work.

## Specifications

### Optical

Light Transmission Up to 85% VLT Available; 80% Standard  
 Film Options Anti-Glare, Polish and Anti-Reflective Films

### Electrical

Insulation Impedance 20 M Ohms, @DC 25V  
 Operational Voltage 2.5 to 5.5V D.C.  
 Linearity 98.5% z(Bias less than 1.5%)  
 Chattering Time 10msec or Less

### Mechanical

Touch Activation Force 80g (Typical)

### Environmental

Operation Temperature -20°C ~ 50°C, <50% RH, No Dew Condensation  
 Storage Temperature -40°C ~ 70°C, <50% RH, No Dew Condensation  
 Humidity 50°C at 90% RH or Lower for 240 Hours, No Dew Condensation  
 Altitude Operating: 10,000 Feet  
 Storage: 50,000 Feet

### Durability/Reliability

Chemical Resistance ASTM F 1598-95: 6% HCl, 40% H2SO4, 10% NaOH, Gasoline, Acetone  
 ASTM D 1308-87: Beer, Tea, Coffee, Cola, Ink, Bleach, Etc.  
 Surface Hardness Scrape Hardness 4H of ASTM D3365 and 3H JIS K5400  
 Touch Life 35 Million Touches in a Single Location, Tested to Withstand 350g Force  
 Pen Hitting Durability 6 Million Touches in a Single Location at 350g Force  
 Pen Sliding Durability 500,000 Strokes at 350g Force  
 Sealability NEMA 4, 12 & IP65

### Other Specifications

Input Method Finger, Pen or Gloved Hand  
 Standard Touch Screen Thickness Film on Glass: 1.40 +/- 0.21mm  
 2.13 +/- 0.21mm  
 3.35 +/- 0.21mm  
 \* Custom Thicknesses Available  
 Available Sizes 5.7" to 20" Standard Sizes (Custom Sizes Available)\*  
 Warranty 5 Year Standard

\* Specifications are subject to change.

For additional information on Touch International products and solutions, contact a sales representative or e-mail [sales@touchintl.com](mailto:sales@touchintl.com).



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