

# TI-4 Touch

## Resistive Touch Technology

The TI-4 Touch from Touch International is a film on glass 4-wire analog resistive touch screen that provides full functionality in a low-profile sensor. This touch screen is ideal for mobile or portable products where compact size and low power draw is a priority - such as PDAs, global positioning systems, smart phones and other handheld applications. Featuring excellent positioning accuracy, the TI-4 can be used with finger, gloved hand or pen-input.

### At a Glance

- Fast, Accurate Response Time
- Superior Performance; Drift-free Operation
- Not Affected by Dirt, Dust, Water or Light
- Supports Multiple Operating Systems
- Outstanding Optical Clarity
- Works With Finger, Gloves and Active Stylus

### Applications

- PDAs
- Mobile Applications
- Global Positioning Systems
- Hand-Held Computers



With its input versatility, durability and cost-effectiveness, the TI-4 is an exceptionally popular touch solution for a growing range of new and emerging applications. TI-4 Touch is engineered to deliver the speed, clarity and accuracy required to meet a broad set of application requirements for customers considering a 4-wire resistive solution.

Backed by a one-year warranty and 5 million touches in a single location, TI-4 delivers ease of integration and optical superiority.

### Resistive Controllers

Part Numbers:

48-B-4-07-KIT

48-B-4-17-KIT

48-B-4-08-KIT

48-B-4-18-KIT

48-B-4-09-USB-KIT

48-B-4-09-SER-KIT

### Sensor Sizes

3.8" 7.0" 12.1"

4.0" 7.2" 14.0"

4.7" 8.4" 15.0"

5.7" 9.4" 17.1"

6.2" 10.4" 18.1"

6.5" 11.3" 19.0"

\*Custom Sizes Also Available

TI-4 Touch 4-Wire Resistive Technology consists of a glass or acrylic panel that is coated with electrically conductive layers. These thin layers are separated by invisible separator dots. When operating, an electrical current moves through the screen. When pressure is applied to the screen, the layers are pressed together causing a change in the electrical current and a touch event to be registered.

## Specifications

### Optical

Light Transmission 80% Standard +/- 3% (Up to 90% Available)\*  
 Film Options Anti-Glare, Polish Standard (Anti-Reflective Films Available)\*

### Electrical

Insulation Impedance 20 M Ohms, @DC 25V  
 Operational Voltage 2.5 to 5.5V D.C.  
 Linearity 98.5% +/- 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 5 Million Touches in a Single Location, Tested to Withstand 350g Force  
 Pen Hitting Durability 1 Million Touches in a Single Location at 350g Force  
 Pen Sliding Durability 100,000 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: 1.35 +/- 0.15mm  
 2.25 +/- 0.15mm  
 3.50 +/- 0.15mm  
 \* Custom Thicknesses Available  
 Available Sizes 2.1" to 19" Standard Sizes (Custom Sizes Available)\*  
 Warranty 1 Year Standard - Long Term Warranties Available

\* 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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