

TI-8 Touch

Resistive Touch Technology

Featuring film on a glass 8-wire analog resistive touch screen, the TI-8 Touch from Touch International offers excellent positioning accuracy and can be used with finger, gloved hand or pen input. Ideal for mobile or portable products where compact size is a priority, the TI-8 is extensively used in devices such as PDAs, global positioning systems, battery operated educational toys, hand-held computers, and mobile applications.

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
- Global Positioning Systems
- Mobile Applications
- Hand Held Computers



With its input versatility, durability and cost-effectiveness, the TI-8 Touch is a widely used touch solution for a growing range of new and emerging applications. Engineered to deliver speed, clarity and accuracy, this 8-wire resistive solution meets a broad set of application requirements.

Backed by a two-year warranty and 5 million touches in a single location, TI-8 delivers ease of integration and optical superiority.

Resistive Controllers

Part Numbers:

48-B-8-01-KIT

48-B-8-02-KIT

Resistive Sensors

Sizes:

8.4" 12.1" 19.0"

10.4" 15.1" *Custom Sizes Also Available

TI-8 Touch 8-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. As 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 75% Standard +/- 3%
 Film Options Anti-Glare, Polish Standard

Electrical

Insulation Impedance 20 M Ohms or >@DC 25V
 Operational Voltage 2.5 to 5.5V D.C.
 Linearity +/- 1.5%; 3% Maximum
 Chattering Time 10msec or Less

Mechanical

Touch Activation Force 50g (Typical)

Environmental

Operation Temperature -10°C ~ 50°C tested at 35% RH, Non-Condensing
 Storage Temperature -20°C ~ 60°C tested at 35% RH, Non-Condensing
 Humidity <40°C at 95% RH, Non-Condensing
 Altitude Operating: 10,000 Feet
 Storage: 50,000 Feet

Durability/Reliability

Chemical Resistance ASTM F 1598-95: 6% HC1, 40% H2SO4, 10% NaOH, Gasoline, Acetone, Methyl Chloride, Isopropyl Alcohol, Hexane, Turpentine, Anti-Freeze, Etc.
 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 5.7" to 19" Standard Sizes (Custom Sizes Available)*
 Warranty 2 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.



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