



# AccuTouch Five-Wire Resistive

## For Human-Machine Interface

**Elo's AccuTouch touchscreens**, the proven market leader in five-wire resistive technology, are the preferred solution for applications that demand reliability, input flexibility, and contamination resistance. AccuTouch touchscreens, with their patented technology, deliver a touch response that is drift-free and accurate in high-use applications. Compare the five-wire design of AccuTouch, where both X and Y measurements are made on the stable rear glass layer vs. other resistive technology designs where the flexing plastic coversheet is used to measure one axis. AccuTouch touchscreens provide a longer product life backed by a five-year warranty—withstanding more than 35 million touches vs. the one-year warranty typical with four/eight-wire manufacturers. AccuTouch touchscreens can be sealed against contamination and certified to meet NEMA 4/4x/12 and IP 65 standards. AccuTouch touchscreens are the ideal solution for POS, voting machines, industrial automation, medical equipment, retail, office, and pharmacy automation.

### Benefits

- Stable, drift-free operation
- Broad input flexibility
- Contamination resistance
- Accuracy in high-use applications
- Long product life
- Meets NEMA 4/4x/12 and IP 65 standards

### Applications

- Point-of-sale (POS) terminals
- Voting machines
- Industrial automation
- Medical equipment
- Office automation
- Retail automation
- Pharmacy automation

# AccuTouch Five-Wire Resistive Specifications

## MECHANICAL

Input Method	Finger, gloved hand, or stylus activation
Available Sizes	6.4" to 21.3"; visit our Web site for full specifications and other offerings

## ELECTRICAL

Positional Accuracy	Standard deviation error is less than 0.080 (2 mm)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Touch Activation Force	Typically less than 4 ounces (113 grams)
Controller	Board: Serial (RS232) and USB Chip: Serial (RS232) and USB

## OPTICAL

Light Transmission	HL products: 80% +/-5% at 550 nm wavelength
--------------------	---

## ENVIRONMENTAL

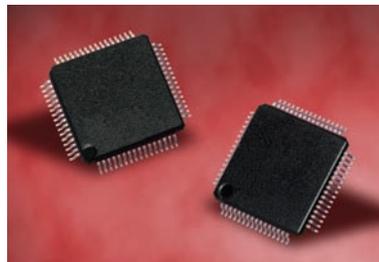
Temperature/ Relative Humidity	Operating: 90% RH at max 35°C (standard design) 90% RH at max 50°C (enhanced design) Storage: 90% RH at max 35°C for 240 hrs, noncondensing (standard design) 90% RH at max 50°C for 240 hrs, noncondensing (enhanced design)
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
Chemical Resistance	Industrial chemicals: acetone, methylene chloride, methyl ethyl ketone, isopropyl alcohol, hexane, turpentine, mineral spirits, unleaded gasoline, diesel fuel, motor oil, transmission fluid, antifreeze. Food-service chemicals: vinegar, coffee, tea, grease, cooking oil, salt, plus most commercial cleaners including ammonia-based glass cleaner and laundry detergent.
Electrostatic Protection	Per EN 61000-4-2, 1995: Withstands 20 discharges up to 15 kV
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Can be sealed to meet NEMA 4 and 12 and IP 65 standards

## DURABILITY

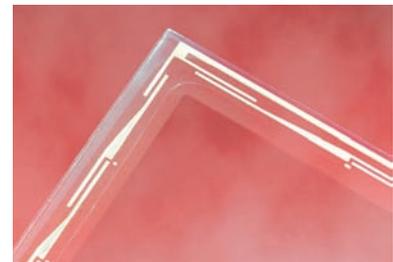
Surface Durability	3H per ASTM D3363
Expected Life	Operationally tested to 35 million touches in one location without failure
Warranty	Touchscreen: 5-year limited warranty Controller: 5-year limited warranty



2216 combo controller board



COAch III combo controller chip



Z-border pattern for enhanced linearity

To find out more about Elo's extensive range of touch solutions, go to [www.elotouch.com](http://www.elotouch.com), or call the office nearest you.

### North America

Elo TouchSystems  
301 Constitution Drive  
Menlo Park, CA 94025-1110

800-ELO-TOUCH

Tel 1-650-361-4700  
Fax 1-650-361-4747  
[eloinfo@elotouch.com](mailto:eloinfo@elotouch.com)

### Europe

Tel +32 (0)16 35 21 00  
Fax +32 (0)16 35 21 01  
[elosales@elotouch.com](mailto:elosales@elotouch.com)

### Asia-Pacific

Tel +81 (45) 478-2161  
Fax +81 (45) 478-2180  
[www.tps.co.jp](http://www.tps.co.jp)

### Latin America

Tel 1-305-428-5210  
Fax 1-305-717-4909  
[www.elotouch.com.ar](http://www.elotouch.com.ar)



Tyco Electronics reserves the right to change or update, without notice, any information contained herein; to change, without notice, the design, construction, materials, processing or specifications of any products; and to discontinue or limit production or distribution of any products.  
AccuTouch, COAch, Elo TouchSystems, IntelliTouch, TE Logo, and Tyco Electronics are trademarks.  
Copyright 2007 Tyco Electronics Corporation H56607 9/07

 **Tyco Electronics**  
Our commitment. Your advantage.