

# 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 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.

Elo offers Enhanced, Improved and TrueFlat AccuTouch configurations. Enhanced AccuTouch and Improved AccuTouch touch screens have a flat flexible cable that is soldered to the glass. There is a bump where the cable attaches that is typically 0.010" (0.25 mm) high. True Flat

AccuTouch touch screens use a flexible printed circuit cable that is attached to the glass using anisotropic film to eliminate the cable bump and enable true flat application.

### 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	5.7" to 24.0"; visit <a href="http://www.elotouch.com">www.elotouch.com</a> 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

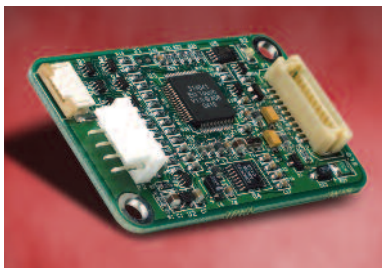
Light Transmission	HL products: 80% $\pm$ 5% at 550 nm wavelength
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## ENVIRONMENTAL

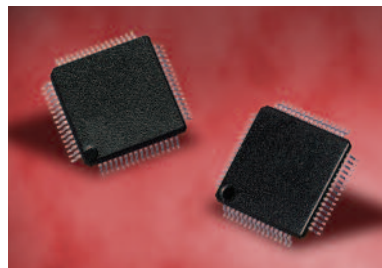
Temperature/ Relative Humidity	Operating: Enhanced AccuTouch—90% RH at 122°F (50°C) max Improved AccuTouch—90% RH at 140°F (60°C) max TrueFlat AccuTouch—90% RH at 122°F (50°C) max  Storage: Enhanced AccuTouch—90% RH at 122°F (50°C) max for 240 hrs, noncondensing Improved AccuTouch—90% RH at 140°F (60°C) max for 240 hrs, noncondensing TrueFlat AccuTouch—90% RH at 122°F (50°C) max for 240 hrs, noncondensing
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

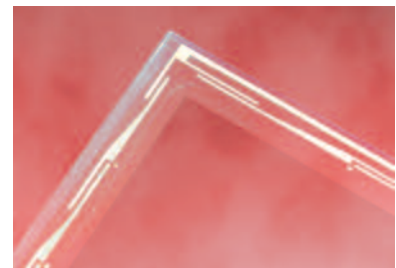
Surface Durability	Enhanced AccuTouch: meets pencil hardness 3H per ASTM D3363 Improved AccuTouch: meets pencil hardness 3H per ASTM D3363 TrueFlat AccuTouch: meets pencil hardness 4H per ASTM D3363
Expected Life	Operationally tested to 35 million touches in one location without failure
Warranty	Touchscreen: 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.

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