

## AccuTouch Five-Wire Resistive Touchscreens

For Human-Machine Interface

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 resistive touchscreens, with proprietary Elo Touch Solutions 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 a stable rear glass layer where other resistive touchscreen designs use a flexing plastic coversheet to measure only one axis. As a result, AccuTouch resistive touchscreens provide a longer product life backed by a five-year warranty—withstanding more than 35 million touches versus the one-year warranty typical with shorter life four and eight-wire touchscreens from other manufacturers. AccuTouch touchscreens can be sealed against contamination to support NEMA 4/4x/12 and IP65 standards. AccuTouch touchscreens are the ideal solution for point-of-sale (POS), voting machines, industrial automation, medical equipment, retail, office, and pharmacy automation.

AccuTouch touchscreens are available in four configurations: improved, enhanced, true-flat and Zero-bezel. With improved and enhanced AccuTouch touchscreens, a flat flexible cable is soldered to the glass. AccuTouch true-flat and Zero-bezel touchscreens use a flexible printed circuit cable that virtually eliminates the cable attachment bump that is typical on most resistive touchscreens and enable a smooth, flat integration.

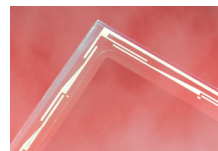
**2218 combo controller board**



**COACH V combo controller chip**



**Z-border pattern for enhanced linearity**



### Benefits

- Stable, drift-free operation
- Broad input flexibility
- Contamination resistance
- Accuracy in high-use applications
- Can be sealed to support NEMA 4/4x/12 and IP65 standards upon integration
- Flat-cable attachment for seamless integration
- 3H, 4H pencil hardness resists scratching

### Applications

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

### About Elo

Elo founders pioneered the touch screen over 40 years ago. Today, Elo Touch Solutions is a leading global supplier of touch-enabled technology, products and industry solutions. The Elo portfolio encompasses the broadest selection of OEM touchscreen components, touchmonitors, and all-in-one touchcomputers for the demanding requirements of diverse markets, including gaming machines, hospitality systems, industrial automation, interactive kiosks, healthcare, office equipment, point of sale terminals, retail displays, and transportation applications. The Elo touch experience has consistently stood for quality, reliability and innovation with over 20 million installations worldwide.

## 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 (2mm)
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 550nm wavelength
Environmental	
Temperature/Relative Humidity	Operating: AccuTouch enhanced, AccuTouch true-flat, AccuTouch Zero-bezel—90% RH at 122°F (50°C) max AccuTouch improved—90% RH at 140°F (60°C) max Storage: AccuTouch enhanced, AccuTouch true-flat, AccuTouch Zero-bezel—90% RH at 122°F (50°C) max for 240 hrs, non-condensing AccuTouch improved—90% RH at 140°F (60°C) max for 240 hrs, non-condensing
Altitude	Operating: 10,000 ft (3,048m) Storage/transport: 50,000 ft (15,240m)
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	UL, cUL, TÜV, CE, FCC Class A
Agency Approvals	Can be sealed to meet NEMA 4 and 12 and IP 65 standards
Sealability	Can be sealed to meet NEMA 4 and 12 and IP 65 standards
Durability	
Surface Durability	AccuTouch enhanced, AccuTouch improved: meets pencil hardness 3H per ASTM D3363 AccuTouch true-flat, AccuTouch Zero-bezel: 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

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

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