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## 4-Wire Resistive Touchscreen Specifications Rev.: 07/12/2010

Ezscreen® 4-wire Resistive Touch Sensors (Touch Screens) have the following standard features:

- Touch accuracy is 98.5%+ Accurate, RoHS and ADA Compliant
- “Anti-Newton Ring” Chemically Hardened “ITO” Indium Tin Oxide (In<sub>2</sub>O<sub>3</sub>-SnO<sub>2</sub>) Glass
- Engineered Internal Anti-Glare PET (PolyEthylene Terephthalate) overlay is bonded to the ITO glass substrate
- Separator dot diameter 0.035mm-0.050mm, the Smallest in the industry for the best quality of display transmission of all resistive touch screens
- Light Transmission: ≥83% wavelength @ 550nm (polished surface cond.)
- FPC Tail: Lower electrical resistance and greater flexibility than PET or ITO Film used by other suppliers. It is much more reliable than ribbon wire connectors. It is laser-bonded to the touch sensor for consistent and reliable performance
- Resolution of 4096X4096 (controller dependent)
- Haze: Less than 6%
- Maximum Circuit Rating: DC5v less than 20mA at contact point of top layer with bottom layer (ITO/ITO)
- Insulation Resistance: 10M+ @ DC25V
- Dielectric Strength: Withstands 250V RMS (50 ~ 60 Hz 1 min.)
- Contact Bounce Time: Less than 5ms
- Life Expectancy: Greater than 1,000,000 closures (typical)
- Scoring Life: More than 100,000 (typical)
- Mechanical Actuation Force: 10 to 100g (pen or finger)
- Linearity: 1.5% max. for panels less than 15" diagonal in 4:3 aspect ratio
- Surface Hardness 3H
- Environmental Operational Temperature Range -10°C (14°F) to +60°C (140°F) (humidity from 20% to 85%, no dew condensation)
- Storage Temperature from -20°C (-4°F) to +70°C (158°F) (humidity 20% to 90%, no dew condensation) Humidity 40°C @ 90% -95% for 240 hrs
- Vibration Rating: 20 G's max. (10-200 Hz, MIL-STD-202, M204, Condition B)