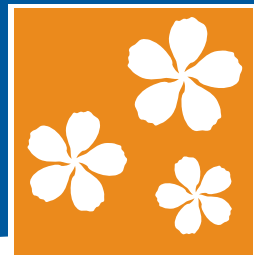


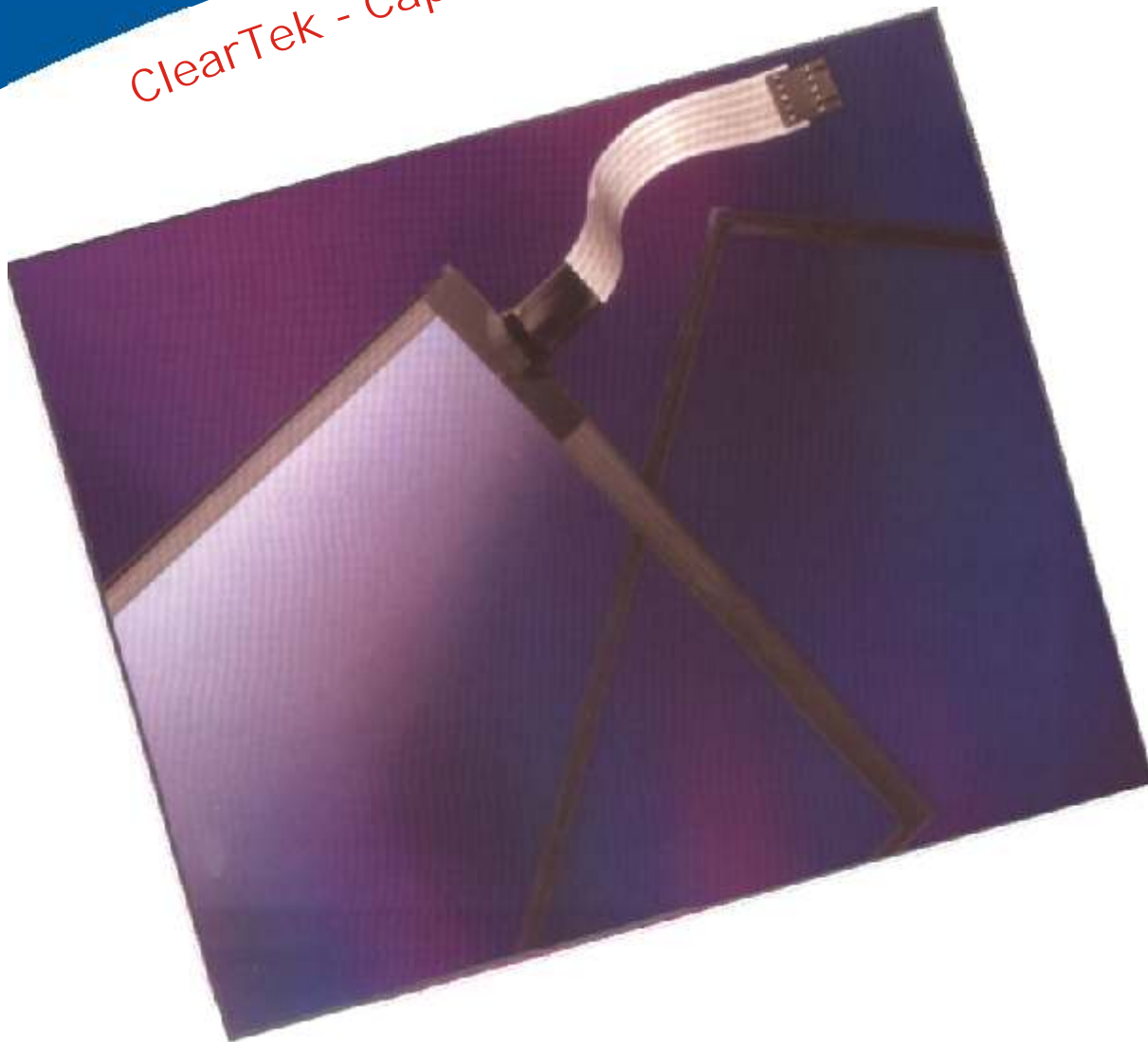
Pushpam

Expanding IT Horizon



PUSHPAM
Estd. 1990

ClearTek - Capacitive Touchscreen



Tough...touch...feel

3M

Electrical

Input Method: Finger. TouchPen available with qualified sensor, attachments and electronics

Accuracy and Precision Area: Reported touch coordinates are within 1.0% of true positive (based on viewing area dimensions) when linearized and used in conjunction with 3M Touch Systems electronics.

Touch Screen Resolution* 16k x 16k

Optical

Optical Clarity: Up to 88% light transmission at 550 nm; dependant on specific surface finish chosen. Equipment used: BYK Gardner Haze Gard Plus

Surface Finishes: Industrial and Polished etch for flat or curved. True etch for curved only. True AR etch for flat only.

Coating: ClearTek is protective glass overcoat that protects the sensor by resisting scratches and increasing durability.

Mechanical

Linearization: Factory linearization values are stored in the touchscreen NOVRAM, attached controller or 2D bar-code

Touch Contact Requirement: 3 ms for finger input

Glass Thickness: 0.125" (+-0.01")/3.18mm (+-.25 mm) typical. (Glass only, not including tape, wires and solder if used.)

Size and Shape: Hundreds of curved (spherical and cylindrical) and flat sizes offered. Custom sizes also available.

Surface Scratch Hardness¹ Can not be scratched using any stylus with Mohs' rating of less than 6.5. Exceeds severe abrasion test per MIL-C-675C. Withstands 10,500 grams of force per Balance Beam Scrape Adhesion Mar Tester. MicroScratch tester with 10 micron radius tungsten carbide indenter takes a force of 1.8 Newtons.

Nema Rating: Nema sealable.

Gasketing: Complete water-resistant seal obtainable with polyethylene gasket. Consult Sensor Integration guide for additional information.

Cleaning: Water, isopropyl alcohol, and similar non-abrasive cleaners.

Reliability

Endurance Test²: A ClearTek Sensor with Industrial etch has been tested in a laboratory environment to withstand over 225 million mechanical touches without noticeable degradation to the surface.

Surface Obstructions: Touch screen's operation unaffected by surface obstructions such as dirt, dust, grease, smoke, peanut butter, etc.

Chemical Resistance: ClearTek is highly resistant to corrosives, in accordance with ASTM-D-1308-87 (1993) and ASTM-D-1598-95.

Liquid Resistance: Liquids on screen do not impede touchscreen performance.

Liquid Repellence: Contact angle of 94 degree and greater measured using Sessile Drop Contact Angle Method. This renders the screen extremely water repellent.

Operating Temperature Range: -15 degree Celsius 70 degree Celsius for touch screen.

Storage Temperature: Always store the touch screen sensor in its original shipping container between 50 degree Celsius and 85 degree Celsius (MIL-STD-810E). Never store the touch sensors in an environment where condensation may form.

* The maximum number addressable coordinates generated by the controller.

1. Paul N. Gardner Co. model PA-2197 using a loop stylus (0.128 in. O.D. Rockwell Hardness 55-61)

2. Mechanical touch activation in a single x,y location using a finger-like stylus of 45 durometer, shore "A" hardness, 0.5 inch diameter with a load of 0.46 pounds, +/- 0.01 pounds force

- ❖ Transparent coating significantly increases durability by resisting scratches and abrasions.
- ❖ Performance unaffected by everyday contaminants in the environment
- ❖ Accurate, fast, reliable touch response
- ❖ Narrow border for easy integration
- ❖ Connects to the new EX II electronics platform
- ❖ ClearTek capacitive touch screens available in both flat & curved

Sizes

CRT: 15" Curve & 17" Flat

LCD: 15" and 17" Flat

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Pushpam a 15 year old group is working in the various fields of Information Technology . Software development, Gas distribution, Computer hardware imports/ distribution , manufacturing of ayurvedic medicines, food processing and export etc. Working in cutting edge technology products, Pushpam always aggressive and efficient towards all the projects. In IT sector Pushpam is active since last 14 years and is currently working on technologies like Information Kiosk / Transaction Kiosk /Touch screens, POS products like Thermal printers, barcode scanners, Customer display, complete POS systems and Multi port serial card solutions. Pushpam is already in to imports of all these products from Taiwan and other parts of the world and offers the complete solution and best support for all these products. Pushpam has always believed in the best product and best support at the best price.