



**THE KEYFLEX COMPANY PTY LT**

ACN 072 935 276

# TOUCH SCREENS

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## PRODUCT FEATURES

- \* Uses 12 bit ADC technology with resolution of 4096 x 4096 pixels, making it suitable for CRT monitors or LCD displays.
- \* Effective touch sampling rate > 600 times / second.
- \* Cursor stability achieved using enhanced antinoise SMD multi-layer board.
- \* Automatic RS-232 serial port location.
- \* Will automatically detect VGA mode at real time. Extension VESA mode version 1.2 or higher is used.
- \* Can automatically search a corresponding location file with different VGA mode resolution and provide a fixed location file for an auto full screen monitor.
- \* No need to memorize commands, just directly select commands displayed on set up screen.
- \* Both the Touch Screen and the Mouse use the same serial port simultaneously.

Technology	: Analog Resistive Type
Input Method	: Finger & any stylus
Operating Pressure	: 3g~ 15g
Screen Thickness	: Tempered Glass at 3.1mm
Transmission	: 75%~ 87.5% (Anti-Glare or Glare)
Screen Surface Hardness	: 3H
Operating Temperature	: 0°C ~ 65°C
Operating Humidity Range	: 0% ~ 95% RH
Power Input	: DC4V ~ 6V
Power Consumption	: ≤ 60ma (including mouse)
Max. Operating Current	: 12ma / point to point
Resistance	: 300 Ω / □
Insulation Resistance	: 20M Ω up
Resistance Tolerance	: Four points structure / < ± 5%
Dimensional Stability	: 150°C x 30 min / < -0.4%
Endurance Test	: 3000 x 10 <sup>3</sup> times / 10ma, 200g
FCC Compliance	: CLASS B COMPLIANT
Serial Output	
Input Voltage	: DC 5V
Parity	: None
Data	: 8 bit
Stop bit	: 1 bit
Conversion Speed	: 110 - 19.2K baud
Output Data Cycle	: About 6 msec
Output Data Resolution	: Vertical 4096 Horizontal 4096
Output Mode	: Make, Break, Continuous
Mouse Emulation	: Driver enables mouse emulation in MS-WINDOWS / MS-DOS environment

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## STANDARD SPECIFICATIONS

### ELECTRICAL

Maximum Circuit Rating	: DC4V~ 6V
Maximum Operating Current	: 12mA
Power Consumption	: ≤ 60mA
Surface Resistivity	: 300 Ω / □
Resistance Tolerance	: < ± 5%
Insulation Resistance	: > 40M Ω
Dielectric Withstand	: > 3KV
Actuations (Finger Touch)	: > 3 million cycles (Tip R3, Ø 6 Diamentor, Load 300g, Silicon Rubber Hardness 60)
Actuations (Pen Touch)	: > 1 million strokes (Pen Tip R0.8, Load 250g)
Visual Light Transmission	: 67%~ 87.5% 67% for Non-Glare Type 3 Layers 74% for Non-Glare Type 2 Layers 87.5% for Glare Type 2 Layers

### MECHANICAL

Actuation Force	: 3 grams ~ 200 grams Standard 8 grams ± 3 grams
Linearity	: < 1%
Average Position Inaccuracy	: < 1%
Screen Surface Hardness	: 3H (Pencil Hardness Test JIS K5400)
Glass Thickness, Optical Performance	: 1.35 ± 0.05m/m, ≥ 92%
Layer Thickness (ITO Coated Pet)	: 0.175m/m

### ENVIRONMENTAL

Operating Temperature	: 0°C ~ 65°C
Storage Temperature	: -15°C ~ 80°C
Temperature Coefficient of Resistance	: R/Ro < 5% at 65°C 1000 HR
Long-Term Stability of Resistance	: R/Ro < 1% at 25°C continuous
Operating Humidity Range	: 0% ~ 95% RH
Shrink Resistance	: < 0.9/120°C, 30 minutes