

Transduction

Surface Acoustic Wave Touch Screen

TR-TOUCH-19SAW

TR-TOUCH-19SAW Drift-Free Beveled 19" Touch Screen



Precise Bevel SAW Touch Screen for Industrial 19" LCD Monitors and Computers

The TR-TOUCH-19SAW is a surface acoustic wave touch screen where the waves are spread across the screen by bouncing off reflector arrays along the edges of the overlay and are detected by two "receivers". The acoustic wave weakens when the user touches the glass with their finger. The coordinates are then determined by the controller circuitry that measures the time at which the amplitude declines. It is the only technology that can produce a Z-coordinate axis response. It offers drift-free stable performance which is always precise.

- Use in industrial, process control, medical, military and nuclear applications
- Superior image, clarity, resolution and light transmission
- Drift-free stable performance of touch accuracy
- Good durability and scratch resistant with a solid glass display
- Long life expectancy; > 50,000,000 touches
- Can produce Z-coordinate axis response

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Specification

Model

- TR-TOUCH-19SAW 19" Beveled Surface Acoustic Wave Touch Screen

Interface

- Serial (RS-232), USB

Structure

- Glass only
- Glass Thickness: 4mm (0.157")

Sensor Size

- 19 inch
- Active Area: 376.0mm (H) x 301.0mm (V) (14.80" x 11.85")
- Overall Area: 404.0mm (H) x 330.0mm (V) (15.91" x 12.99")
- Bevel Area: 380.0mm (H) x 305.0mm (V) (15.00" x 12.01")

Input Method

- Finger only

Positional Accuracy

- Standard deviation of error is less than 2mm (0.080")

Surface Hardness

- Mohs hardness rating of 7

Reliability

- Scratch-free; more than 50,000,000 touches in one location without failure

Touch Activation Force

- <85g

Light Transmission

- More than 90% as per ASTM

SAW Touch Controller

- Voltage: 12V±0.5V/5V±0.5V
- Current: 100mA for 12VDC SAW controller
- Resolution: 4096 x 4096
- Response Time: 12ms
- Operating Temperature: -20 ~ 50°C (-13 ~ 122°F)
- Storage Temperature: -40 ~ 70°C (-40 ~ 158°F)

- Humidity: 10% ~90% relative humidity, non-condensing
- Multi-Point Touch: intelligent discrimination by software
- Agency Approvals: CE, FCC, RoHS

Chemical Resistance

- Active area of touch screen is resistant to chemicals that do not affect the glass - toluene, methyl ethyl ketone, isopropyl, alcohol, methyl alcohol, ethyl acetate, ammonia-based cleaners, gasoline, kerosene and vinegar

Agency Approval

- CE, FCC, RoHS

Operating Altitude

- 3000m (9843ft)

Operating Temperature

- -20 ~ 50°C (-13 ~ 122°F)

Storage Temperature

- -40 ~ 70°C (-40 ~ 158°F)

Humidity

- 10% ~ 90% relative humidity @ 40°C (104°F), non-condensing

Compatible with Windows 9x/ME/2000/XP/2003/VISTA/7 and LINUX