

RG Touch

Surface Capacitive Touch Technology

Touch International's RG Touch delivers unmatched durability for unattended public access applications where the threat of vandalism or other potential threats are high. The RG Touch is highly durable and its break-resistant capacitive technology has been engineered to withstand the high volume of traffic and rough treatment found in these high use, high abuse public environments.

At a Glance

- Exceptional Impact, Vandal and Scratch Resistant
- Ideal for Public Access Applications
- No Drift and No Recalibration Required
- Unaffected by Environmental Factors; Moisture, Rain or Temperature
- Finger Input

Applications

- Gaming
- Kiosk
- Banking
- Web Phones
- Vending Machines



The RG Touch is an all-glass sensor with a transparent, thin-film conductive coating applied to its front surface with a layer of tempered glass laminated to the back surface making the sensor virtually shatterproof. Engineered to surpass the UL 60950-1 Impact test, RG Touch touch screens are designed to provide the highest levels of light transmission, excellent readability and unsurpassed protection against a wide range of physical threats. RG Touch is also available with light control film for added privacy and security.

RG Touch is proven to meet today's demanding requirements for ATMs, interactive kiosks, gaming and vending applications. These touch sensors are durable, dependable and can be hermetically sealed. The construction of the RG Touch protects against damage caused by moisture, heat and vandalism.

Solutions are available to meet customer specific requirements. For more information, please contact a sales representative.

RG Touch has a precisely printed electrode pattern along the edge of the conductive layer of the sensor. A transparent overcoat is fused over the conductive coating to protect and seal the sensor. The glass sensor is often etched to provide the suitable anti-glare properties for the touch screen application. A layer of tempered glass is then laminated to the back of the sensor to increase impact-resistance.

Specifications

Optical

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| Material | Pure Glass (Standard) |
| Light Transmission | 81% Typical |
| Film Options | Anti-Glare and Anti-Reflective |

Electrical

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|----------------------|---------------------------------|
| Input Method | Finger Only |
| Insulation Impedance | Exceeds 20 Meg Homs, @25V |
| Operational Voltage | 5v and 12v D.C. |
| Linearity | 99% With Calibrated Electronics |
| Chattering Time | 10msec or Less |
| Communication | RS-232C TTL Level |

Mechanical

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| Surface Hardness | Scrape Hardness 6H of ASTM D3365 and 5H JIS K5400 |
| Touch Activation Force | 50g (Typical) |
| Thickness | 6.25mm to 8.57mm +/- .25mm (Custom Thicknesses Available)* |
| Available Sizes | Curved - 15", 17", 19"; Flat - 12.1", 15", 17", 18.1" |
| Supported Operating Systems | MS-DOS, Windows 95/98/2000, CE/ME/2000NT, OS/2, XP, Linux |
| Impact Resistance Test | Meets or Exceeds UL60950-1 Impact Test |

Environmental

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| Operation Temperature | -20°C ~ 50°C, <50% RH, No Dew Condensation |
| Storage Temperature | -40°C ~ 70°C, <50% RH, No Dew Condensation |
| Humidity | 50°C at 90% RH or Lower for 240 Hours, No Dew Condensation |
| Altitude | Operating: 10,000 Feet Storage: 50,000 Feet |

Durability/Reliability

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| Touch Durability Electrically | 50 Million Touches in a Single Location |
| Touch Durability Cosmetically | 250 Million Touches in a Single Location |
| Chemical Resistance | ASTM D 1308-87 (1983), ASTM D 15989 95: Resistant to Containments Such as Tea, Coffee, Vinegar, Juice and Coke |
| NEMA Rating | NEMA Sealable; NEMA 4, 12 & IP65 |
| Cleaning | Water, Isopropyl Alcohol and Non-Abrasive Cleaners |

Other Specifications

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| Warranty | 5 Year Standard - Long Term Warranties Available |
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* Specifications are subject to change.

For additional information on Touch International products and solutions, contact a sales representative or e-mail sales@touchintl.com.



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