

# TOUCH OPTION

Acoustic Touch ReverSys™



## ACOUSTIC TOUCH FOR CONRAC PUBLIC DISPLAYS

### Ultimate optical quality

No film, no coating: No negative influence on image quality

### Extreme durability and stability

Laminated safety glass panel with MOHS7 resistance

### High resistance against dirt, water and fluids

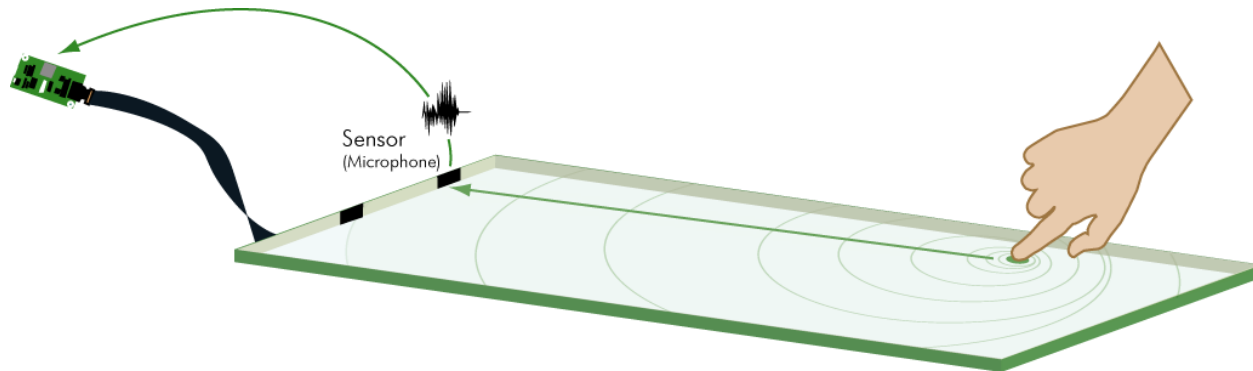
Ideal Touch Solution for transportation environment

### Multiple activation possibilities

With finger, gloved hand, stylus, credit card or any other object

## TECHNOLOGY

The Acoustic Touch Technology is based on the recognition of acoustic waves generated in an object when the user touches it. Any touch of the object produces an acoustic signature which is identified and evaluated by the software engine (driver) and hence triggers a function. The evaluation is very precise, a simple touch is enough to release an impulse. The principle works for any kind, form or material of the object (2D or 3D, glass, metal, wood, plastic, etc.). In our application the object is the safety glass panel of our public displays itself.



## CHARACTERISTICS

Configuration: Safety glass panel with ReverSys™ Technology

<b>Optical properties</b>	Remain unchanged, coating possible
<b>Material</b>	Any material possible, not dependent on surface treatment
<b>Calibration and alignment</b>	One-time calibration, no drift, no re-calibration necessary
<b>Surface</b>	The touch function is not affected by scratches or damages on the surface Safety glass panel is inured to scratches or damages (MOHS7)
<b>Humidity and condensation</b>	Very resistant, even works with water on the surface (up to IP65)
<b>Expected life-time</b>	> 50 Mio (touches per location)
<b>Thickness</b>	Sealing gaskets mandatory (1.6mm inside and 2mm outside)
<b>Response time</b>	40ms typical
<b>Activation force</b>	> 0,5N dynamic
<b>Palm rejection</b>	Yes

## TECHNICAL DATA

### Mechanical

Input Method: Finger, gloved hand, stylus, ballpoint, metallic tools, nail, credit card activation

### Electrical

Positional Accuracy: Typical error 1 % of diagonal size

Resolution: 50 dpi (equivalent 1748 x 984 on 40" screen)

Touch Activation Force: 0.5N min (dynamic)

Controller: USB

### Optical

Safety Contrast Enhancement Panel: Anti-glare, 85% transmission typical (refer also to the datasheets of our PD-series)

### Environmental

Operating Temperature: Depending on product configuration, please refer to display datasheet

Storage Temperature: Depending on product configuration, please refer to display datasheet

Humidity: Not affected by humidity level

Dust seal: In accordance to the device specification

Electrostatic Protection: As per EN 61000-4-2, 1995: Meets level 4 (15kV air / 8kV contact discharges)

### Approvals

Agency Approval: UL, cUL, TÜV, CE, FCC Class A

### Durability

Touch Life (MTCF): >50 million activation touch on a single location

Surface Obstructions: Touch screen operation withstands surface contaminants such as dirt, dust and grease

Surface Hardness: MOHS hardness 7\* -> scratch-proof (\*diamonds: MOHS hardness 10). However, scratches would not cause functional failure

Liquid Resistance: Liquids on screen do not impede touch screen performance

Chemical Resistance:

Industrial chemicals:  
Acetone, methylene chloride, methyl ethyl ketone, isopropyl alcohol, hexane, turpentine, mineral spirits, unleaded gasoline, diesel fuel, motor oil, transmission fluid, antifreeze.

Food-service chemicals:  
Vinegar, coffee, tea, grease, cooking oil, salt, plus most commercial cleaners including ammonia-based glass cleaner and laundry detergent.

**Developed / Designed / Made in Germany**

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Technical specification subject to change  
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**CONRAC Technology**  
Makes your display last longer.

