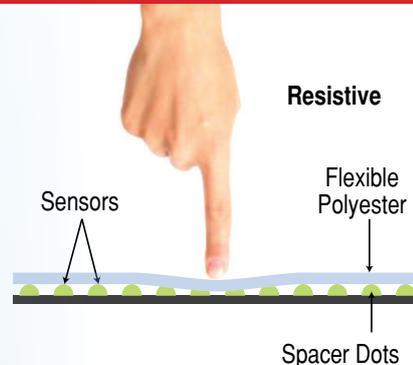


# TOUCH SCREENS

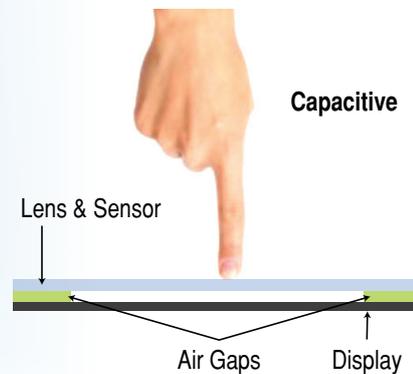
## What is a Resistive Touchscreen?

Resistive touchscreens work on the basis of pressure applied to the screen. A resistive screen consists of a number of layers. When the screen is pressed, the outer layer is pushed onto the next layer - the technology senses that pressure is being applied and registers input. Resistive touchscreens are versatile as they can be operated with a finger, a fingernail, a stylus or any other object.



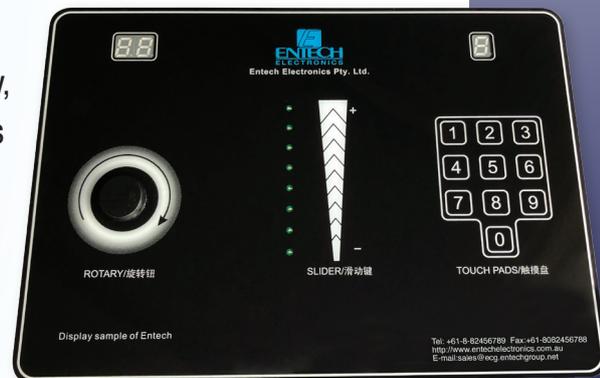
## What is a Capacitive Touchscreen?

Capacitive touchscreens work by sensing the conductive properties of an object, usually the skin on your fingertip. A capacitive screen on a mobile phone or smartphone usually has a glass face and doesn't rely on pressure. This makes it more responsive than a resistive screen when it comes to gestures such as swiping and pinching. Capacitive touchscreens can only be touched with a finger, and will not respond to touches with a regular stylus, gloves or most other objects.



## Captive Touch Membrane Switches

Capacitive touch membrane switches offer great design flexibility, durability, and a sleek appearance. The technology in this style membrane switches use conductive carbon printed circuitry to create an electrical field. When a human finger touches the key, an increase in the capacitance is recognized by the IC, which activates the output of the key.



## Resistive Touch Membrane Switch

If you are looking for touch screen technology fully sealed to your ezel, we have the solution for you. Our Resistive Touch Screens can be bonded to a full sheet of polyester or polycarbonate overlay. This graphic overlay could also be the graphic overlay of a membrane switch layer. This design eliminates the need for clumsy perimeter gaskets or thick bezel cut outs. It provides for a washable front surface and extra durability for the touch screen in harsh environments. A full ESD shield of ITO coating or a perimeter conductive ink or foil shield layer can also be added.

