

AMT Launches Water Resistant PCAP Touch Button

AMT has developed a Projected Capacitive (PCAP) touch button product that has excellent water-resistant performance! We use special technology in the design of the PCAP touch button product and successfully reduce the interference of liquids on touch panels! PCAP touch button products are well-established and have been seen in many applications. However, most of them are with physical buttons but not LCDs. This is primarily due to the limit of capacitive sensing touch panels, i.e. when a PCAP touch panel is used in an environment with liquid. The liquid on the touch surface tends to induce noise. When detecting the touch signal, the controller would cause false touch, and the operation would not go smoothly.

Principle Of PCAP Design

The typical design principle of PCAP uses mutual capacitance measurement. AMT adopts self-capacitance measurement instead and can successfully reduce the noise interference caused by liquid. However, while self-capacitance measurement could avoid false signals, conductive substances in many liquid forms could still affect the touch function. So when operating touch under the influence of liquid, a signal response might still be triggered within the liquid range.

To tackle this problem, our R & D team performed meticulous adjustment on the structure, hardware, as well as firmware of PCAP touch buttons. We are happy to share that conductive substances in liquid no longer cause problems for our touch button products! When there is liquid on the surface of the PCAP touch buttons, the touch operation can still be performed like normal!

Water Resistant PCAP Touch Button

AMT water-resistant PCAP touch buttons are great for bathroom control panels. One-finger operation is possible when water, detergent, or soapy water is sprayed on the PCAP touch product. Furthermore, AMT PCAP touch buttons can work with 2.8mm cover glass, support up to 22 keys, and we can add LED indicator lights based on customer needs.

