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G/G/G Structure for High Sensitivity Touch™

INTRODUCTION

In response to the market demand for capacitive touch panels that can function with thick glove and thick cover lens applications, EDT has developed a capacitive touch structure that can be used for high sensitivity applications in the industrial and outdoor applications. The structure consists of three layers of glass, and hence been coined the name of G/G/G. It is capable of adding a thick cover lens of 3mm up to 8mm. This feature makes these touch panels very good candidates for outdoor or public applications where the user treatment of the panel is unpredictable.

Another good application for these touch panels are when customers are required to wear OSHA gloves in power line and facility applications. The first layer of this glove is Salisbury class 0 insulated rubbers and can prevent 1000V from being conducted, and a second layer of the glove is a leather material in order to protect the rubber glove from damage. These touch panels are able to function through both of these layers of gloves.



Insulated rubber gloves



Insulated rubber + Leather gloves



G/G/G structure

One of the cons for high sensitivity touch panels is that there could be some noise interference. Electrical noise that is common in the industrial and medical environment could potentially cause touch panels to malfunction or have false touches. However EDT has successfully implemented a combination of various hardware and software anti-noise technology to prevent such failures in the industrial or medical environment. This has allowed our products to pass interference tests when both low and high frequency noise was generated near the panel.