

Case Study

Single Illuminated Capacitive Switches Prove 'critical' to High Performance Medical Monitor



We provided a leading medical OEM with enhanced illumination technology for a hospital-grade high-performance acute foetal and maternal intrapartum monitoring system.

The product uses the most advanced technology available to acquire accurate data to support in clinical decisions. In the fast-paced labour ward environment the monitor must be easy to use and provide data that is quick to read.

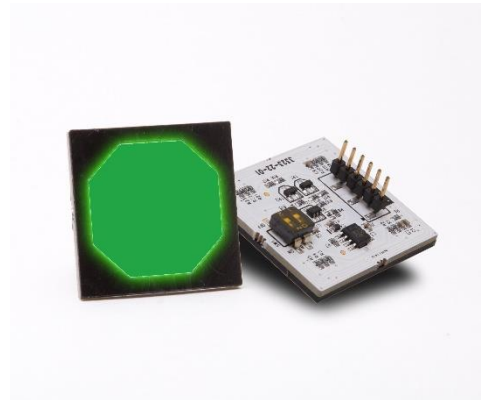
TT Electronics' single illuminated capacitive switch module provides an on/off pulse with bright light power indicator. The slim design allows the modules to be mounted behind a control panel providing an aesthetically pleasing display that can withstand the rigorous cleaning requirements for clinical environments.

TT's solution provides advanced touch sensitivity with no-miss operation and thin-film backlighting providing light shaping and light spread from the LED. The modules are simple to connect with a simple plug in FFC cable and can be customised to fit space limitations of the end product.

Single Illuminated Capacitive Switch Modules

LED Backlit Capacitive Switch Modules from TT are available in component form which allow designers to evaluate touchscreen technology and even manufacture simple control solutions. The switches feature an innovative method of combining the benefits of capacitive switching with multi-colour area-specific backlighting.

Available in 20mm and 35mm diameter versions the capacitive switch modules are suitable for mounting into panel thicknesses of up to 7mm and 11mm respectively. The full RGB LED illumination provides a high brightness user touch area with unmatched uniformity of illumination. The solid-state switch design has a non-latching output of 40mA maximum operating from a supply voltage of 6VDC to 28VDC. The 35mm version offers designers adjustable low, medium and high touch sensitivity to suit the application. The operating temperature of the switch modules is 0° to 50°C



TT's patented thin-film LED backlighting is a major selling point for our custom designed capacitive switch-based control panels. For smaller projects a custom panel may not be appropriate, and these stand-alone products enable simple integration and means to prototype and evaluate HMI designs without the need to develop custom capacitive sensors and backlighting.

www.ttelectronics.com/hmi

eastleigh.sales@ttelectronics.com