# Membrance switch technology designed for HMI

Printec USA  announced membrane switch technology for human machine interface, HMI, which can be demonstrated with a unique demo keypad to display many possible applications for embedded infrared and capacitive sensors. The demo keypad is the first tool of its kind to combine the capacitive and infrared technology into a single board in order to display the electromechanical, visual and cosmetic features of the switch technology. The demo keypad also includes the use of infrared for long range and short range sensor key activation with audible and LED feedback. Not only can these sensors be activated with the use of bare hands, but also with obstructions such as medical and industrial gloves. This membrane switch technology offers customers design and engineering options to customize switching interfaces for their specific needs.

The mixed tech membrane switch is designed for ease and intuitive operation. It utilizes long range infrared sensing and capacitive proximity switch sensing that can be applied to a variety of industries including:Medical no-touch input devices, with an option for Anti-Microbial overlay surface, Industrial touch or no-touch devices that are sealed from the environmen, Automotive, Appliance, Consumer electronics, Security devices, Hand held devices.

This membrane switch has new product enhancements and design solutions with a number of new embedded features including:

·Thin package construction

·Cap sense tactile buttons

·Cap sense proximity buttons

·Cap sense slider

· Cap sense wheel

·IR long range proximity sensor

· IR button, contact or proximity

· Interactive Led backlighting by embedded light panels

· Audio feedback

**Printec USA**
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