



LGI membrane switches, We'll have everyone pushing your buttons!

Membrane Switches

Regardless of the electronic device you manufacture, the convenience, durability and functionality of the user interface directly effects the customer's experience with your product. A well designed membrane switch must function properly throughout the entire product life cycle and reflect the reliability and quality of your technology. At LGInternational we provide superior quality membrane switches in a wide variety of formats. In addition, we offer design engineering to ensure that your membrane switches, front panels and graphic overlays deliver excellence in function, durability and design.

Impressive graphic overlays

The look and feel of your product is limitless with options for screen printing, digital imaging and three-dimensional properties. For tactile enhancements, LGI offers elastomer molded overlays, doming, embossing and texture variations. Our graphic and engineering design specialists can assist you throughout the development process ensuring aesthetic and functional appeal.

Reliable actuation technology

The critical element of a quality membrane switch lies hidden beneath the surface. The circuitry and switch technology must be appropriate for the usage demands and environmental conditions in which the product will be used. LGI offers a wide range of switch technology including metal domes, integrated poly domes and conductive pills. In addition, we supply state-of-the-art circuitry options which include conductive silver, carbon and dielectric inks.

Durability throughout product lifespan

Ultimately, the user interface is only as good as its longevity. LGI accommodates a wide range of material, adhesive and finish options which provide resistance to high temperatures, extreme cold, chemicals and moisture, delivering membrane switches suitable for any environment.

Product Highlights

- Molded, embossed and flat keypad options
- Tactile and non-tactile actuation
- Metal and polyester domes
- 1 to 5 million actuations
- Rubberized keypads
- Complex circuitry and components
- Visual feedback with LED, fiber optic and deadfront options
- Withstands temperatures from -40°F (-40°C) to 185°F (85°C)
- ESD, RFI, EMI shielding
- Chemical and moisture resistance
- UL, CSA, RoHS compliant

The LGI Difference

- Custom design engineering
- Global manufacturing
- Local sourcing and logistics
- ISO 9001:2000 certified



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Membrane Switch Layers

The diagrams below display the key layers of a membrane switch. The two primary types of membrane switches are non-tactile (below left) and tactile (below right). Tactile membrane switches provide an audible response or click when activated, non-tactile switches do not, often relying on LEDs or displays to provide confirmation. For more thorough explanations of the types of switches including detailed descriptions, diagrams and options for each membrane switch layer, visit our website (www.lgintl.com/membrane-switches).

Non-Tactile

Tactile

