RANGVISHWA™

touching the future

MEMBRANE SWITCH | CAPACITIVE TOUCH SWITCH

GRAPHIC OVERLAYS | SPECIALITY LABEL

ABOUT RANGVISHWA

Rangvishwa Enterprises, an ISO 9001 : 2015 Company, feel proud to announce ourselves as the manufacturers of Membrane Switch Keypads, Graphic Overlays & wide range of Speciality Labels used in most of the Industries. We have state of art manufacturing setup for Screen & Digital Printing. Rangvishwa Enterprises has gained the confidence and trust of all our clientele by serving them up to the mark of their satisfaction , since a huge span of a decade. We are considered to be the only guaranteed and trust worthy source of high quality Keypad & Speciality Labels at the most competitive rates to customers from all verticals.

MEMBRANE SWITCH KEYPAD

Membrane keypad is an interface between man & machine. The advantages of Membrane keypad are aesthetical look , durability, environmentally safe and cost effective . A Membrane keypad is a simple electro mechanical device used to direct the flow of low voltage , low current electricity through an electrical circuit. These are widely used in various vertical viz. Electronic, Automobile, Medical, Industrial Automation , Foods, Agriculture & Home appliances.

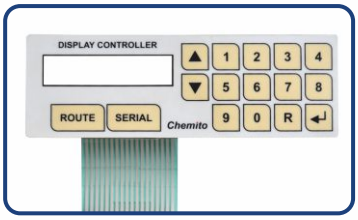
Rangvishwa produce high quality, reliable, durable & aesthetically appealing keypad in three major categories.

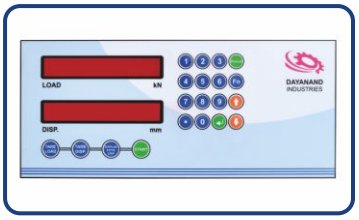
RIGID / PCB BASED MEMBRANE KEYPAD

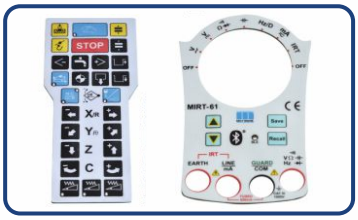
This keypad consists of rigid glass epoxy printed circuit board [PCB]. Known advantages of PCB based keypad are feasibility of mounting components like LEDs, FRC connecters, burg strips & resistors. These types of keypad have properties like robustness & durability. Printed graphics overlay applied directly onto the PCB after final assembly of keypad. Standard thickness of bare PCB vary from 0.4 mm to 3 . 2 mm & it can be adhesive based or stud mounting as required.

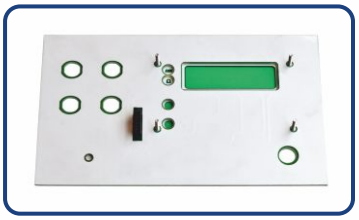
Few advantages:

- Lower electrical resistance/higher conductivity.
- Soldering many component types using automated pick-and - place equipment.
- Ideal for smaller designs where dense circuit patterns or trace routing limitations exist, by using plated thru-hole technology to utilize both sides of the PCB.
- Plating options such as gold, tin-lead, and nickel.
- Can be used in extreme environments and high-vibration environments.
- PCB thickness available from 0.4mm to 3.2 mm
- ESD/EMI Shielding optional.









FLEXIBLE / PFC BASE MEMBRANE KEYPAD

Flexible Membrane Keypad consists layers of polyester film & spacer. The circuit is printed on polyester film using conductive ink . These keypad available in | Tactile , non Tactile based. Also LEDs & resistors can be incorporated. They are thin, light weight, shock resistant, abrasion resistant & convenient in installation. It has generally back adhesive like 3M but can be made robust by providing aluminum or acrylic base with studs as required.

Benefits using Flexible Membrane Switch :

- Extremely thin construction saves precious design space.
- Low cost, especially when compared to bulky, costly electro mechanical switch assemblies.
- Sealed construction is resistant to moisture and contaminants.
- Low-profile surface can be easily cleaned.
- Pillow or rim-embossed graphic overlays LGF (light guide film) backlighting
- Embedded LEDs
- Rigid backers such as aluminum and FR4
- EMI/RFI shielding

CAPACITIVE TOUCH MEMBRANE SWITCH :

A Capacitive Membrane Touch Switch is type of switch, which operates only when the user makes contact with the object. The Capacitive membrane switch uses sensing technology to operate the functions of switch when touched. Capacitance switches use the humans body's capacitance to identify touch and open/close the circuit. It requires only one electrode to operate, which is found behind a panel made of non-conductive material like glass, plastic or acrylic.

Benefits using Capacitive Touch Keypad :

- Beautiful and fashionable appearance; clear image-texts; free design.
- Well sealing performance and wear resistance; fadeness and non-deformation; long life span.
- Backlighting, waterproof and anti-interference.
- No metal contact; simple structure; low cost.
- Operation comfort; well feeling; good sensitivity.
- It can realize intellectualization and operate more conveniently.
- Its reliability can replace various panels, such as metal keypads, membrane keypads, etc.

GRAPHIC OVERLAY

A Graphic Overlay makes a powerful impression of your company's product. It is an interface that connects the user to the machine or device. We, Rangvishwa manufacture customize Graphic overlays using an advanced process of screen printing & digital printing. As a leader in mfg, of overlay Rangvishwa offers the product in a wide range of substrates like Coated Polyester & PC films & back adhesive like 3M, Nitto etc. Graphic overlays are used industries like electronics, medical, security etc.

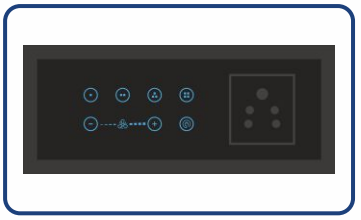
Printing is done on the backside, protecting the graphic from scratching and wearout, which makes these great for keypads, remote controls, electronic devices, control panels, instrument face plates . Various features can be incorporated like embossing, selective area textures, infinite shapes & sizes with different back adhesive options.

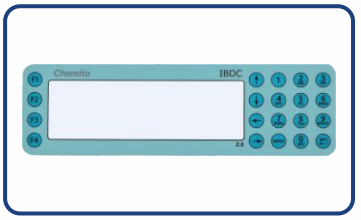
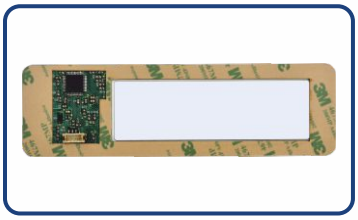
If you are looking for specific features for your product, we can design and manufacture graphic overlays which include:

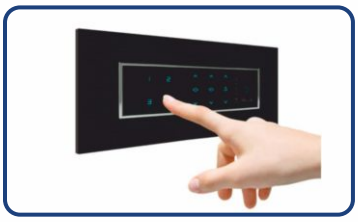
- Embossing
- Transparent LED windows
- Cut-outs for switches
- Anti-glare LCD windows
- Selective Texture

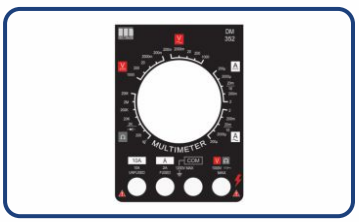
WHERE TO USE ?

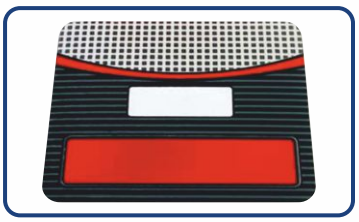
- Electronic Panels
- Measuring Equipment
- Energy Meters
- Various Electronic Equipments
- Digital Meters
- UPS Inverters & Stabilizors
- CNC Machinery Control Panels







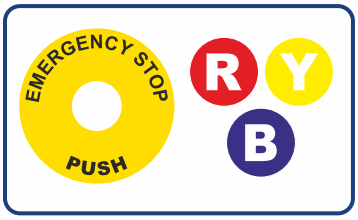


SPECIALITY LABELS

SIGNAGE & INSTRUCTION LABELS

We design & manufacture wide range of high quality Industrial Signage & Instruction Labels as per customers specification . Raw material used for these labels is very durable & suitable for harsh environmental conditions .

Generally Industrial grade Vinyl films & Polycarbonate films with 3M back adhesive are used for these labels.



PU DOME LABELS

We are renowned for manufacturing a wide range of PU Dome Labels that is perfect way to brand the product . We design with different color combination, sizes, shapes & specifications. The cutting edge technology ensure for smooth finishing, long sticking property and embossing effects . We design this label range in 3 - dimensional format by pouring thick and crystal clear PU Over original printed label .

WHY RANGVISHWA™

We are industry leaders in developing membrane switch keypads, graphic overlays & speciality labels that exceed customer expectations. Our Nashik based manufacturing facility is equipped with state-of-the-art machinery that supports a variety of processes to bring you the best Custom Membrane Keypads, Membrane Switches, Graphic Overlays & wide range of Specialty Labels in the market. We produce tight-tolerance, feature-rich user-interface assemblies that will operate in the most challenging environments.

OUR SOME CLIENTS

legrand® · efacec · EPCOS · Epiroc · LARSEN & TOUBRO · ThermoFisher SCIENTIFIC · RISHABH INSTRUMENTS · FOX www.foxindia.net · susten By Mahindra · Chemito · MOTWANE

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