



Keypads made to measure.

**KEYPAD SOLUTIONS BY ETRONICS**

## Five good reasons for keypads by etronics.



### ENGINEERING-SUPPORT.

We are here to support you with our experience and engineering expertise throughout the development and the entire product life cycle.



### COMPREHENSIVE SOLUTION.

You may obtain a silicone rubber keypad or membrane keypad as an individual component or if you so wish, we can integrate them with PCBs, casings and cable connectors.



### QUALITY IS OUR UTMOST PRIORITY.

Not only do we comply with the conventional quality standards and use strict selection and inspection procedures for our partners, we can also carry out validations, if necessary.



### PRACTICE MAKES PERFECT.

30 years of experience in the design and production of silicone rubber and membrane keypads are at your disposal.



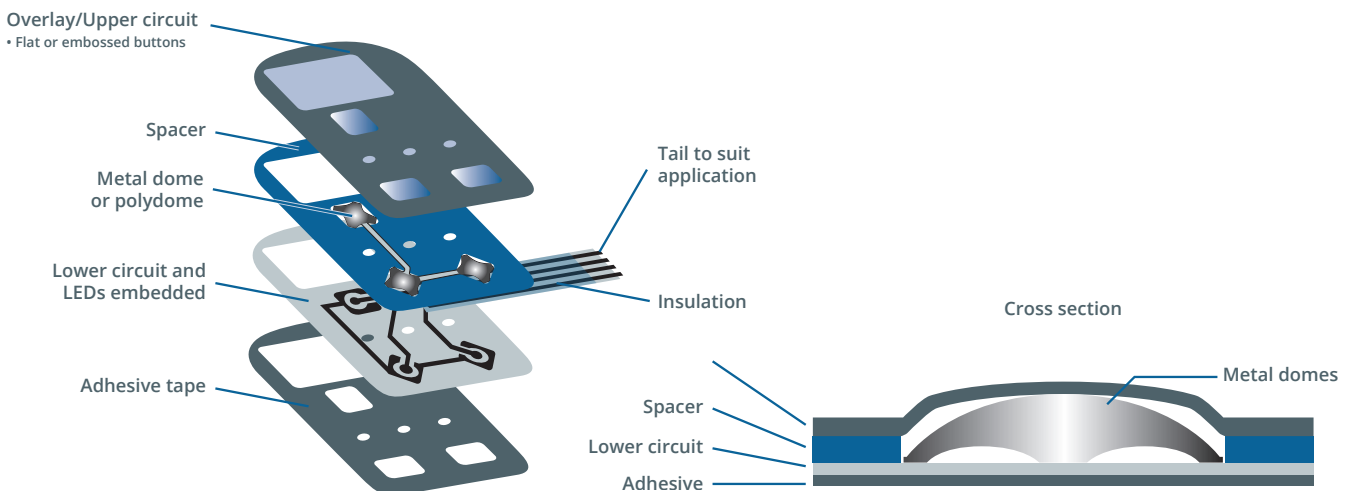
### SMALL-SCALE PRODUCTION IS POSSIBLE.

Small and very small batches of customised keypad products are possible with us.

## A host of possibilities under one roof.

### MEMBRANE KEYPADS AND FRONT PANEL KEYPADS

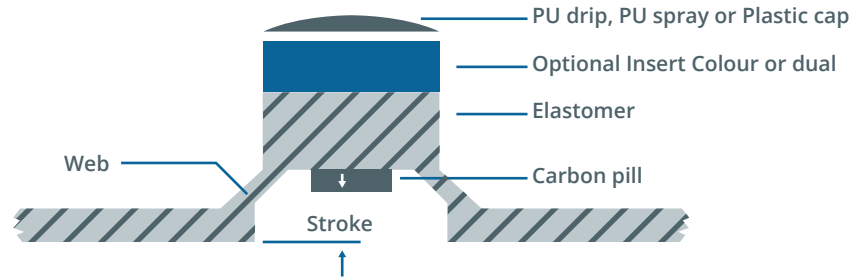
Membrane keypads are durable and modern flat data entry systems and are very suitable for areas where chemical and thermal stability as well as dust-proofing and water-proofing are required. As a rule they are mounted using an adhesive film on the rear side. Alternatively, if supplied on a rigid support panel, they might be mounted using screws or clamping.



Structure of a membrane keypad

## SILICONE RUBBER KEYPADS

Silicone rubber keypads are very versatile in design. Keys of different shapes and colours are possible. When in operation they are not only quiet but also resistant to damp, chemicals, dirt and changes in temperature.



Structure of a silicone rubber keypad

## COMPLETE SOLUTIONS

We act as project leader with engineering expertise and ensure seamless transitions between design, development and production. Doing so, we pay special attention to the quality and economic efficiency of the end product throughout the entire development and production process.

On request we can integrate your membrane or silicone rubber keypads...

...with a suitable casing.

...with mechanical components, e.g., support plates, protective covers, etc.

...with electronic components, e.g. PCBs or connector cables.

## A variety of materials.

The choice of material for the user interface is of particular importance. A large selection of material is available:

- Polyester (matt / gloss)
- Polycarbonate
- PVC
- Aluminum
- Steel plate
- Stainless steel
- Silicone rubber
- Others



Polycarbonate membrane keypad



Steel plate keyboard



Silicone rubber keypad



Aluminum keypad



Polyester tactile LED custom

## Keypads of all sizes, colours and shapes.

In terms of size, shape and colour of membrane keypads and silicone rubber keypads, the sky is the limit. Thanks to the wide range of production and printing procedures (screen print, digital print, laser etching and paint finish), one-colour or multicoloured keypads are available. They may be printed, embossed, painted and / or etched.

## User-friendly interface.

The feel and tactile properties of a keypad are determined by the surface finish, the stroke as well as the tactile forces (actuation and reset forces). For membrane keypads we use metal domes or polydomes as switching devices. For silicone rubber keypads we mostly use carbon pills.

## Back-lighting.

Individual keys or groups of keys or an entire keypad can be backlit with LEDs. This option is available for all keypads.

## Long-lasting functionality with a purpose.

To ensure long-lasting functionality, we do not view your keypad as an individual component but rather as a component of a machine. We particularly take into account influences such as electromagnetic fields, vibrations and impact, changes in temperature, dirt and dust.

We provide a wide selection of materials and surface finishes which protect your keypad not just from wear but also from UV, dirt and aggressive liquids such as nitrite thinner and the like.

## On the safe side of quality.

At every stage of production we comply with quality guidelines and regulations. From the inspection of arriving goods to various tests (100% electrically tested among others) and the inspection of outgoing goods. The service life of our keypads is in excess of 1 million operating cycles.

## Medical and industrial development projects.

There are special security and hygiene regulations for medical products, for example, in food production. For this reason our partners have not only the required certificates ISO 9001 and ISO 13485 (Medical technology), but have also developed special solutions such as an antibacterial coating which protects the surface from germs.

In particular we support our customers with...

**...the choice of material.**

**...the tactile and the optical properties .**

**...the determination of the operating force.**

**...the replacement of existing input solutions.**

**...surface protection and improved durability.**

**...electronic interfaces and system requirements.**

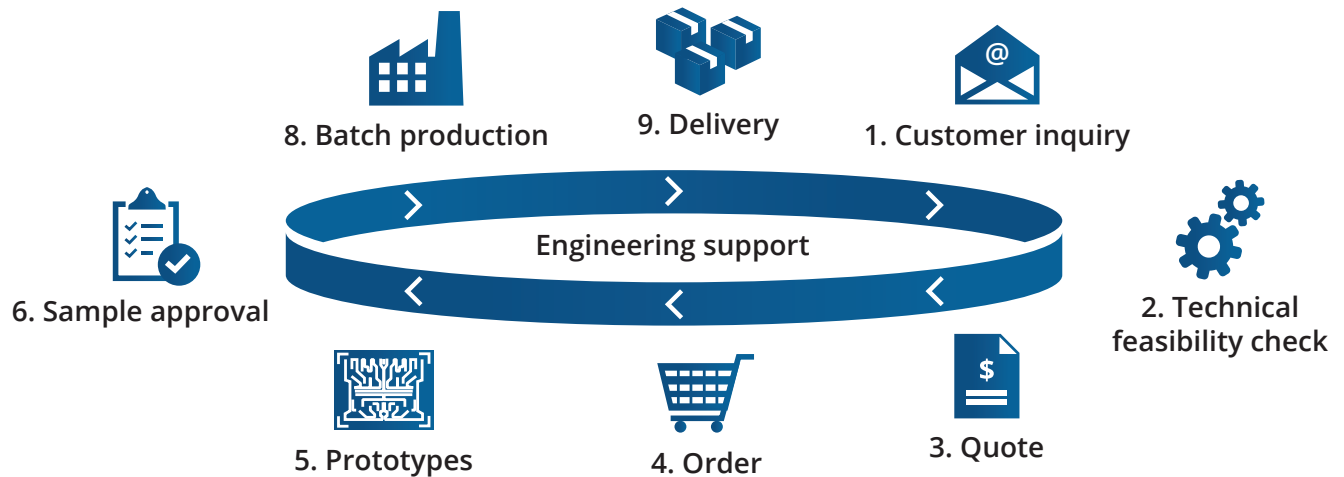
**...constructive measures to optimize the whole system.**

The quality of the end product is a reflection of our years of experience.

## Cooperation is the way to go. Especially with us.

From the first customer query to the delivery to your door, we are here to advise, conceptualise, develop and produce high-quality membrane keypads and silicone rubber keypads.

### A NEAT PIECE OF WORK: PROFESSIONAL HANDLING.



## Comprehensive service. For comprehensive satisfaction.

Thanks to decades of experience and expertise we develop high-quality customised keypad solutions for our customers.

Be it a silicone rubber keypad or a customised membrane keypad with integrated electronics or a basic decorative foil, we can cater for your needs reliably and use our engineering expertise in the design, development and the production. We ensure that the specific production means are available to you for a long period of time so that there is a supply guarantee.

We are looking forward to developing a solution with you.



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