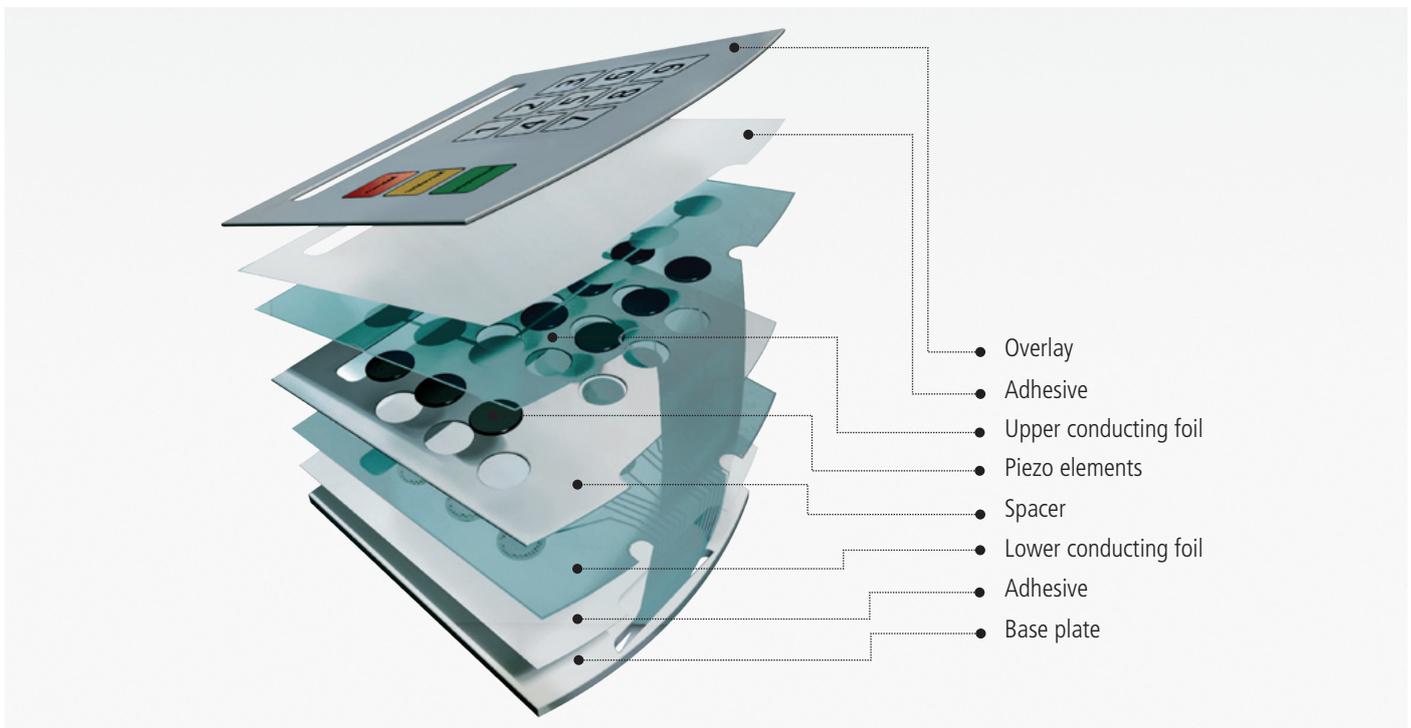


DYNAPIC®

PIEZO TECHNOLOGY FOR INPUT SYSTEMS
STRONG, ROBUST AND RESISTANT

ALGRA



'DYNAPIC® keyboards are extremely robust and resistant.'

The pressure-sensitive touch technology DYNAPIC® features a ceramic piezo element behind each key. These provide contact with printed conductor films. The entire input system also includes an operating panel (overlay) and a support plate.

There is a wide choice of overlay materials as the switching cycle is triggered by the distortion of the piezo element by just a few micrometers: aluminium, stainless steel, glass or plastic are the most common, allowing the development of extravagant design ideas.

Application in rough environment: Resistance to vandalism, guaranteed precise switching and a high degree of user-friendliness are amongst the most important features of this unique flat keyboard.

Robust construction: DYNAPIC® consists of different laminated layers. In the key area there are ceramic elements called piezopills. The power generates a charge in the piezopills which is used as a switch signal. The top membrane only goes through a small, elastic deformation. That's why DYNAPIC® keyboards are extremely robust and resistant.

Intensive use: The pathless application allows a simple and solid construction with a small depth of installation.

Advantages

- Vandal resistant
- Suppression of electromagnetic interference
- Much more robust than membrane keyboards
- Insensitive against mechanical wear
- Unaffected by changes in air pressure
- Various overlay materials available
- Adjustable operating force

Typical applications

- Washing machines
- Dish washers
- Coffee machines
- Chemistry and laboratory instruments
- Cash machines
- Vending machines
- Cashless payment systems
- Weighing and pay stations
- Railway
- And many more

'Resistance to vandalism, guaranteed precise switching and a high degree of user-friendliness are amongst the most important features of this unique flat keyboard.'

Overlay possibilities

Polycarbonat/Plexi:	thickness 0.2–3.0 mm, norm 0.8 mm
Aluminium:	thickness 0.5–6.0 mm, norm 0.5 mm
Stainless steel:	thickness 0.4–1.0 mm, norm 0.5 mm
Glass:	thickness 0.5–1.2 mm, norm 0.7 mm

The choice of material strength can be influenced by the spacing between the keys.

Technical data

Operating force:	from 0.1 to 100 N
Required operation speed:	approx. 10 N/s
Maximum cycles per second:	> 1000 Hz
Storage temperature:	-60 °C to +110 °C
Operating temperature:	-40 °C to +85 °C
No. of press cycles:	> 10 millions
Voltage typically:	1V/N (burden 10M0hm)
Time constant width typically:	70 ms (burden 10M0hm)

Algra tec AG
Rigistrasse 1
5634 Merenschwand
www.algragroup.ch

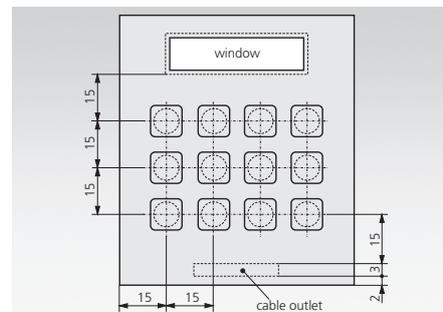
+41 56 675 45 45

gravuretec sa
Stadtgraben 7
3235 Erlach
www.algragroup.ch

+41 32 338 94 44

Trimada AG
Gewerbering 14
5610 Wohlen
www.trimada.ch

+41 56 618 77 00



Algra tec AG
Rigistrasse 1
5634 Merenschwand

info@algragroup.ch
www.algragroup.ch

Switzerland

+41 56 675 45 45

ALGRA
industrial technology

gravuretec
precision works

connect tec
worldwide technologies

TRIMADA
electronic systems

2018/03