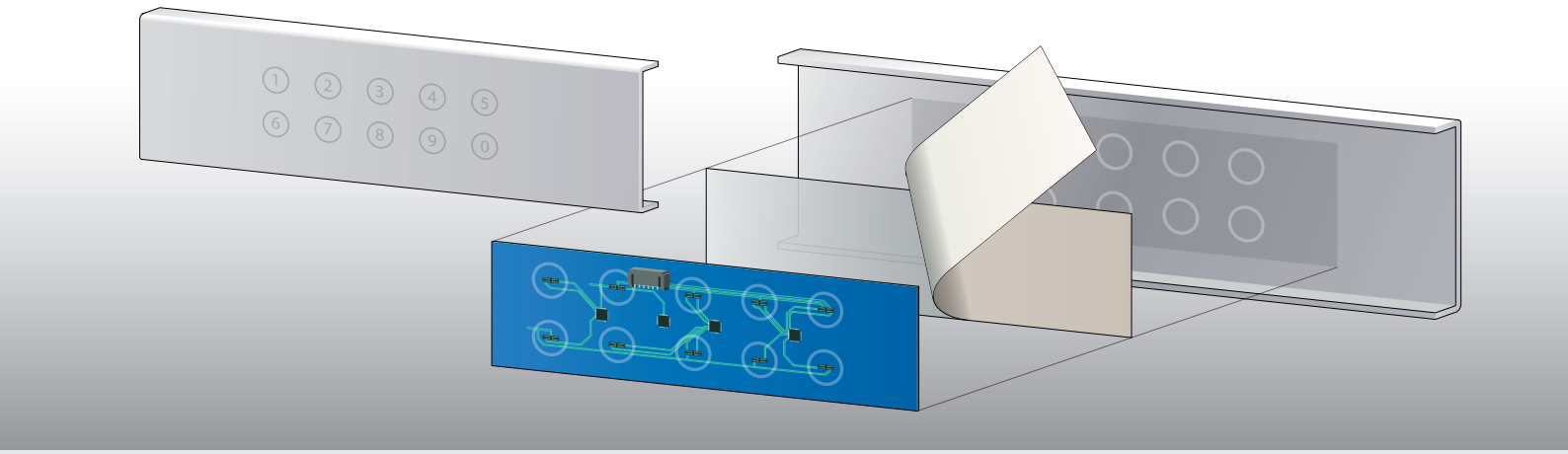
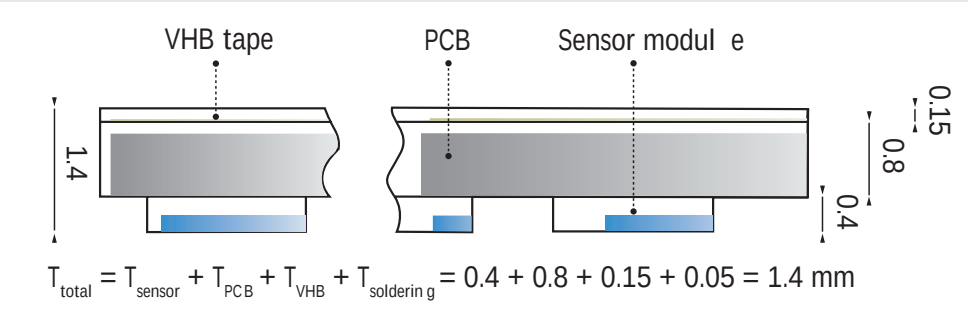


This ultra input technology is very sensitive to touch and resistant to interference.

sens**press**touch technology detects the smallest deformations on the control panel, which trigger a signal when the keys are touched. It doesn't matter whether the control panel is made of metal, glass or plastic: The intelligent signal processing works through a material thicknesses of 0.3 to 1.2 mm without interference.
A sensor is situated behind each key on the PCB. A network of several strain gauge sensors recognises mechanical deformations and filters out the key input using intelligent evaluation.

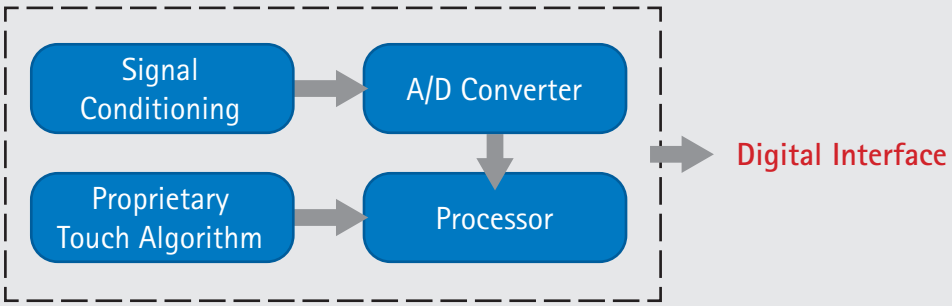
The strain gauge power sensors recognise even the smallest strain changes – even in metals such as stainless steel or aluminium. Typical areas of application include products such as household goods, industry and outdoor devices with special aesthetic design and products that must be highly robust and waterproof.

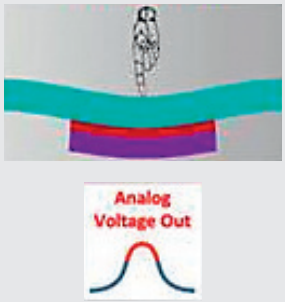


Benefits

- **Realizable:** in various material surfaces such as stainless steel, aluminium or glass.
- **Operability:** 100% safe operation when soiled with oil, grease, salt water and when wearing gloves
- **Highest water protection rating:** Can be used to full capacity in wet conditions.
- **Vandalism protection:** Use of metal control panel fronts protects against vandalism.
- **Force touch:** Adjustable key pressure or key pressuredependent operation.
- **High temperature operational capability:** Temperature range of –40°C to +85°C
- **Long service life:** The tested service life is over 10 million cycles.
- **Easy assembly:** Assembly using self-adhesive tape.
- **Each key layout possible:** The key arrangement is, taking into account the minimum distance, freely selectable.

Integrated signal processing

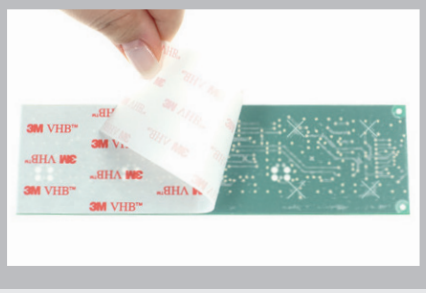




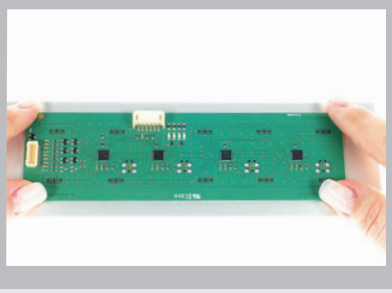
Peel-and-Stick

The user can very easily stick sens**press**touch to the back of a front made of any material using a peel-and-stick process:

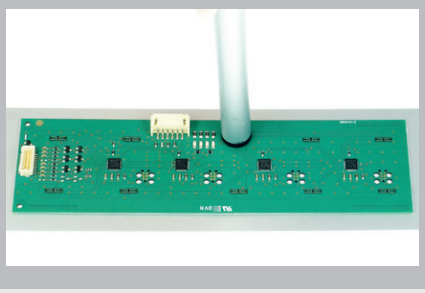
1. Remove protective foil from module



2. Align modul



3. Press on firmly



Overlay-materials	Material thickness at maximum sensitivity
Plastic:	1,0–2,0 mm
Aluminum:	0,3–1,2 mm
Stainless steel:	0,3–1,0 mm
Glass:	0,5–1,0 mm

Technical data	
Operating temperature / storage temperature:	–40 °C bis +85 °C / –40 °C bis +85 °C
Supply voltage:	3,3 V (typically)
Power consumption:	600 µA/ button
IP protection class:	all IP classes can be implemented
Key sensitivity:	50 g to 1000 g adjustable
Life cycles:	> 10 million
Minimum key spacing (centre to centre):	15–20 mm
Sensor size:	2 x 7 mm