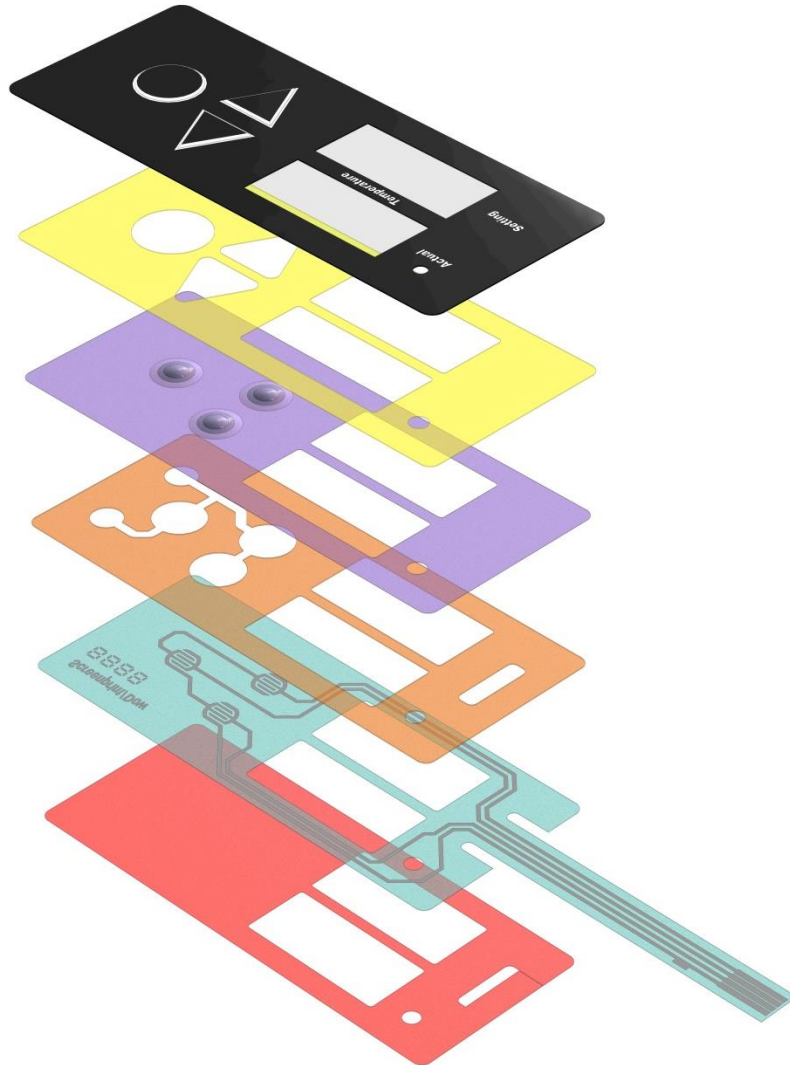


## The Polyester Dome & The 85° C Dome Membrane Switch

The polyester dome membrane switch is a custom, tactile array of normally open single pole single throw (SPST) switches. The design employs a top circuit of thermally formed polyester as a tactile feedback mechanism, an insulating spacer, a bottom circuit, and an optional graphic overlay. Pressure applied to the top layer deflects the top circuit through the spacer, making simultaneous mechanical and electrical contact (see illustrations). Polyester domes are configurable to satisfy a variety of force-displacement specifications wherever low current momentary tactile switches are required. Polyester domed material is limited to environmental operating and storage parameters.



### Advantages

- High Reliability
- Long Life
- Design Flexibility

### Applications

- Medical Equipment
- Industrial Process Controllers
- Computer Peripherals
- Military Applications

### Options

- Surface Mount LEDs
- PCB Assemblies
- ESD/RFI Shielding

### Specifications \*

- |                       |                 |
|-----------------------|-----------------|
| • Actuation Force     | 8 – 24 oz.      |
| • Switch Travel (nom) | .020 - .030     |
| • Contact Bounce      | < 10 ms         |
| • Life Cycles         | 10 <sup>6</sup> |

\*Specifications shown above are typical. Custom configurations are available.

The 85° C dome is a thermally formed high temperature substrate that has comparable performance levels to the polyester dome with the valued exception of increased operating and storage temperatures – up to 85° C. It is also available in various types of construction.