

## Membrane keypad - button construction options:

### Flat membrane keys



FT 1 key type is the simplest key option with custom printed top layer and no tactile feedback. The circuit layer is printed directly on the underside of the top graphical layer. This is ideal where a low cost keyboard is required.



The FT 2 key is similar to the FT 1 version except that the top circuit layer is separate from the top graphical layer.

### Embossed keys:



The EMGC 1 key uses an embossed polydome structure to provide a tactile response and has an additional spacer and graphical layer, above the dome, with key rim embossing for easy key location.



The EMGC 2 switch is similar in construction to the EMGC 1, however the top layer has full key embossing to give a degree of relief to the keyboard front and give easy key location.



The EMG 2 key has a polydome structure which creates a tactile response. Graphics are printed onto the same layer as the domes are formed into. This type of construction is ideal for low cost keyboards needing tactile response



The EMG 3 key uses a polydome embossed top layer, actuating a flat keyboard in the lower layers. This type of key offers a tactile response and very good life expectancy.



The EMG 4 key is similar in construction to the FT 1 key except that the top layer has rim embossed keys for easy key location. This type of key no tactile response.

### Metal dome keys:



The EMGD 1 key is constructed using a flat membrane sandwich with a metal dome providing the tactile response and an embossed top layer for easy key location. In this type of construction the dome is only providing tactile feedback and does not form part of the switch.

EMGD 2



The EMGD 2 key is similar to the EMGD 1 but with no top layer embossing. The top layer follows the shape of the integral dome to give some structure to the keyboard.

EMGD 3



The EMGD 3 key uses the metal dome as part of the switch mechanism. The top layer is rim embossed for easy key location. The spacer layer is thicker than the EMGD 4 & 5 to allow the front layer to appear flat, apart from the rim embossings.

EMGD 4



The EMGD 4 key uses a thinner spacer than the EMGD 3 thus allowing the front layer to follow the profile of the metal dome. This construction provides a very strong tactile response.

EMGD 5



The EMGD 5 key is similar in construction to the EMGD 4 but uses an embossed front layer over the metal domes. Please note many shapes of embossing can be accommodated on the front layer.