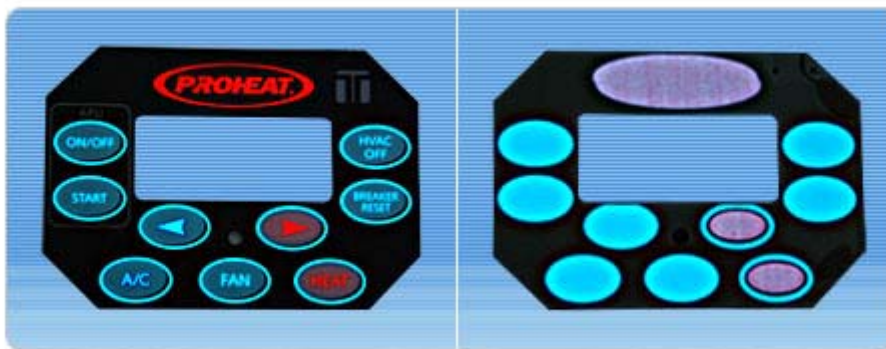


Membrane Switch

Printec H.T. Electronics' Total Solution Approach



Since its founding in 1992 Printec H.T. Electronics Corp has earned a reputation for excellence in the design and manufacture of silkscreen printed products as well as high-quality membrane switches, subpanels, and overlays. Our products are used extensively in commercial, industrial, and high-tech applications, notably for computers, robotics, communications, and medical equipment



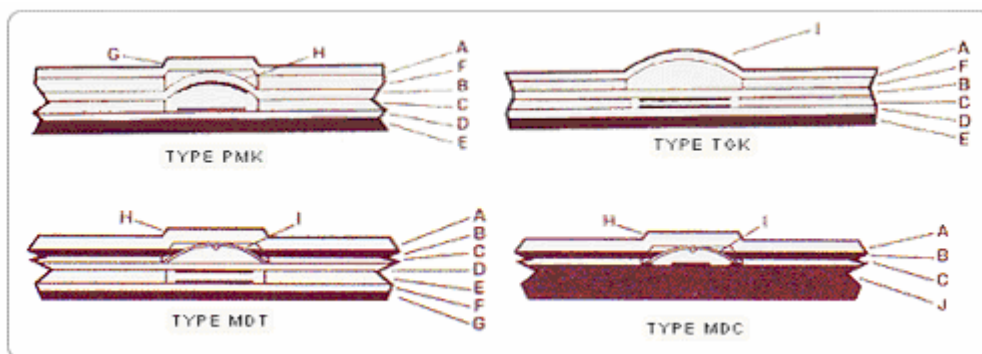
Printec H.T. Electronics' mission is committed to being the leader in our industry for quality and reliability. We will continuously improve our processes and reset our targets to fully satisfy the needs of our customers all the time, while maintaining a safe, environmentally conscious and stimulating workplace

It is through our shared values of respect and loyalty for all customers and employees, our involvement and contributions to the community, our efforts towards employee empowerment for personal and professional, that we persuade, achieve and incorporate our mission daily business operations.



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Printec's Total Solution approach is based on a simple philosophy : provide complete turnkey product solutions; add value through creative problem-solving; and deliver products of the highest quality on-time. Our staff consistently applies this approach to every job, from the simplest label to the most complex and customized membrane switch.



Membrane Keypads

Flat membrane (Type FMK)

Features :

1. Lowest cost
2. Nominal actuation force : 4-12 ounces
3. Actuation force tolerance : ± 3 ounces
4. Minimal tooling costs
5. Up to 10 million actuations
6. Can be embossed (Key border only is recommended)
7. Travel : .006" to .012" (micro- travel)

Polydome membrane (Type PMK)

Features :

1. Definite "snap" when key is activated
2. Nominal actuation force : 8- 24 ounces
3. Actuation force tolerance : ± 4 ounces
4. Up to 1 million actuations
5. Full key emboss is recommended
6. Travel : .020" to .030" (low- travel)



Tactile graphic (Type TGK)

Features :

1. Definite "snap" when key is activated
2. Nominal actuation force : 8- 20 ounces
3. Actuation force tolerance : ± 4 ounces
4. Tooling and unit price less than PMK
5. While still providing tactile feedback
6. Up to 1 million actuations
7. Travel : .020" to .030" (low- travel)

Metal Dome Keypads

Metal dome only (Type MDT)

Features:

1. Crisp "snap" when key is activated
2. Nominal actuation force : 10- 24 ounces
3. Actuation force tolerance : ± 3 ounces
4. Wide keys and space bars can be accommodated
5. Travel : .015" to .025" (low travel)

Dome as circuit element (Type MDC)

Features:

1. Same features as Type MDT, but also has a printed Circuit Board which could carry a display or other electronic components
2. Can also be used with a polyester lower circuit (with printed silver) to provide a Lower cost version of the MDT

Cross section key for types FMK, PMK & TGK

- A. Overlay (polyester recommended)
- B. Upper circuit (polyester with printed silver)
- C. Circuit spacer (acrylic adhesive and polyester)
- D. Lower circuit (polyester with printed silver)
- E. Mounting Adhesive (acrylic)
- F. Tactile spacer (acrylic adhesive and polyester)
- G. Fully key emboss (recommended with tactile)
- H. Formed dome on upper circuit
- I. Formed dome on graphic

Cross section key for type MDT or MDC

- A. Overlay (polyester recommended)
- B. Dome retainer (acrylic adhesive and polyester)
- C. Dome spacer (acrylic adhesive and polyester)
- D. Upper circuit (polyester with printed silver)
- E. Circuit spacer (acrylic adhesive and polyester)
- F. Lower circuit (polyester with printed silver)
- G. Mounting adhesive (acrylic)
- H. Full key emboss (recommended with metal domes)
- I. Metal Dome
- J. Printed Circuit Board (with switch contacts)

