

SPECIALISTS IN OVERLAYS & MEMBRANE SWITCHES



- | Input Devices | Graphics |
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| <ul style="list-style-type: none"> • Non-Tactile Membrane • Tactile Membrane w/ Poly/ Metal Domes • Backlighting; EL, LED, Fiber Optics • Solder Tabs, Connectors or ZIF • EMI/RFI, ESD Shielding • Printed Circuit Boards • Sub Panels or Custom Enclosures • Embossing/ Hydroforming • Duraswitch PushGate™ • Duraswitch thiNcoder™ • Duraswitch MagnaMouse™ • Environmentally Sealed • Surface Mounted Components • Elastomers | <ul style="list-style-type: none"> • Sub-Surface Printing for Durability • Indoor/Outdoor Applications • Emboss/Hydroform • In-mold Decoration • Numerous Material Selections • Custom Color Matching • Die Cutting • Screen Printing • 4 Color Process • Dead-Front Windows • Hard Coat Finishes • Filtered Windows |

Input Devices

Electronic input devices can be custom designed to meet the demanding requirements of today's technically advanced equipment. Specializing in commercial, industrial and medical devices, PIT can engineer key panels to control equipment in nearly any environment. Each key panel manufactured is a precision instrument engineered for electronic reliability and created with durable components that will ensure long life.

Knowing the different environments that key panels are exposed to, PIT understands the need for each key panel to be designed efficient for its task. Key panels can be constructed to be impervious to moisture, chemical and solvent penetration and resistant to extreme heat or cold. Graphic interfaces are integrated with a diverse range of engineered materials to create low profile, sealed key panels that transmit low voltage signals across screen-printed, conductive, silver circuits. PIT takes advantage of the versatility of membrane switches to offer you a wide range of key panel designs created specifically for countless needs.

Graphics

Multi-tones, spot color, and four color process printing can successfully be achieved on a variety of substrates, from flat stock to three dimensional metals and plastics. Graphic overlays and conductive circuitry can be printed, laminated and die cut into almost any shape or size.

	NON-TACTILE	TACTILE METAL DOME	TACTILE POLYDOME	DURASWITCH
ELECTRIC				
Contact Rating	30 VDC, 100mA, 1 Watt	30 VDC, 100mA, 1 Watt	30 VDC, 100mA, 1 Watt	Contact Us
Contact Resistance	< 100 ohms	< 100 ohms	< 100 ohms	Contact Us
Contact Bounce	< 10 ms	< 10 ms	< 10 ms	Contact Us
Capacitance	< 20 pf	< 20 pf	< 20 pf	Contact Us
MECHANICAL				
Actuation Force	3-10 oz.	10-16 oz.	4-8 oz.	Contact Us
Life Cycle*	5,000,000	1,000,000	1,000,000	Contact Us
Key Travel	.007-.011 in.	.015-.025 in.	.010-.045 in.	Contact Us
ENVIRONMENTAL				
Operating Temperature	-30° - +80° C	-30° - +80° C	-20° - +55° C	Contact Us
Storage Temperature	-40° - +80° C	-40° - +80° C	-20° - +55° C	Contact Us

*Life cycle may vary depending on application, environment, and custom design of the keypad.