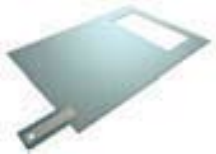


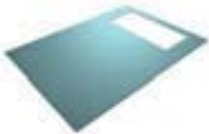
Membrane Switches



Graphic Overlay



Shield



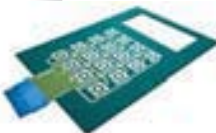
Dome Retainer



Shorting Layer



Tactile Layer



Circuit

Membrane Switch: a momentary switch device in which at least one contact is on, or made of, a flexible substrate - American Society for Testing and Materials (ASTM)

Ampco manufactures custom-designed membrane switches and graphic overlays. Product design capabilities include LEDs, fiber optics, and backlighting.

Membrane Switches and touch panels can be custom designed for your specific applications. Ampco's many years of experience and expertise allow us to help you with your designs to ensure a cost-effective, quality design suited to your needs, your customer and your market.

Membrane Switches are rugged, reliable, thin switch arrays that can help showcase your product. Their low profile, ease of custom design, and simple installation make them the switch technology of choice for many Industrial, Commercial and Consumer Products.

Ampco uses computer laser cutting and digital printing to allow speedy and cost effective short runs and prototypes, and can produce high resolution, picture quality graphics and variable data on membrane switches and graphic overlays.

Membrane Switches are used in many markets including:
 Portable electronics Diagnostic Equipment Consumer Products
 Medical Devices Oil Field Marine Aviation Automotive

Membrane Switch – Electrical Properties (Typical)

Electrical:	Contact Resistance		<50 Ω
	Insulation Resistance		>10M Ω
	Contact Bounce		<10ms
	Maximum Voltage		28VDC
	Maximum Power		~1/4W
	Switching Type		Momentary SP or DP
Mechanical:	Operational Life	Non Tactile	> 5,000,000
		Tactile	> 1,000,000
		Elastomer	> 1,000,000
	Contact Travel		0.005"-0.022"
	Actuation Force		>114g
Environment:	Storage Temperature		-30°C to > 80°C
	Operating Temperature		-20°C to > 65°C
	Humidity		<95%