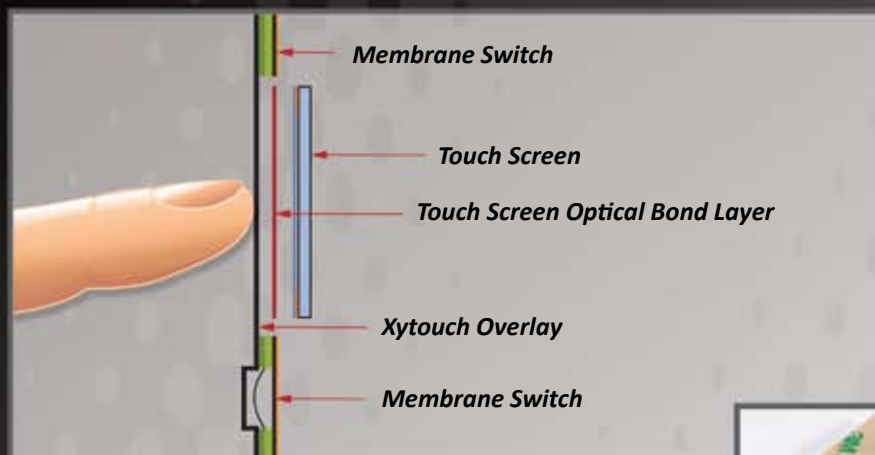


XYTOUCH – A MEMBRANE SWITCH AND TOUCHSCREEN INTEGRATED INTO ONE MONOLITHIC ASSEMBLY.

XYTOUCH blends the touch screen flexibility of software driven GUI with the robustness and reliability of membrane switch technology. By combining the touch screen and membrane switch in one assembly, you can now use the membrane switch to interface the repetitive high volume input of specific keys (an “On/Off” button for example) without the wear and tear typically associated with touchscreens, or highlight functions that need to be quickly found (an “Emergency Stop” button or “Contrast” buttons for example) without having to cycle through a series of menus.

The membrane switch and overlay are optically bonded to the top surface of the touchscreen to provide a clean, clear interface without any air gaps. This additional layer of protection adds a minimal amount of activation force to the touchscreen while providing a high level of protection from chemical exposure, wash-downs, rain, abrasion, etc found in applications in the medical, food service, CNC machining, and mobile data collection markets.

XYTOUCH CONSTRUCTION



BENEFITS

- Visually appealing – eliminates bulky rims or frames around the touchscreen
- Sealed surface – smooth cleanable front surface with no lip or edge between overlay and touchscreen protects against the environment
- Robustness of critical functions – membrane keys exceed 1 million actuations and can incorporate metal domes for tactile feedback
- Easily customized – can be designed to fit any application



4/5/8 - WIRE RESISTIVE TOUCH SCREEN GENERAL SPECS

Spec. / Design	4-wire	8-wire	5-wire
MECHANICAL			
Size	3" to 17"	10.4" to 19"	6.4" to 22"
Tail Type	FPC, HSC, Integral	FPC	FPC
Connector Option	ZIF, AMP compatible, AMP compatible with latch, Berg	AMP compatible, AMP compatible with latch, Berg	AMP compatible, AMP compatible with latch, Berg
Bottom Glass Thickness Option	0.7/1.1/1.6/1.8/2.8mm	1.1/1.6/1.8/2.8mm	1.1/1.6/1.8/2.8mm
Bottom C.S. Glass Thickness Option	0.7/1.1/1.8mm	1.1/1.8mm	1.1/1.8mm
Surface Hardness	3H	3H	3H
OPTICAL			
Surface Finish Option	Clear or AG	Clear or AG	Clear or AG
Light Transmission	>80%	>80%	>80%
Haze	7-12%	7-12%	7-12%
Reflective Rate	16-20%	16-20%	16-20%
Gross	100-130GU	100-130GU	100-130GU
DURABILITY			
Finger Touch Times	10 Million	10 Million	36 Million
Stylus Writing Times	200K---1 inch back and forth	200K---1 inch back and forth	N/A
ELECTRICAL			
Activation Force	0.1-0.8N	0.1-0.8N	<2.5N
Operating Voltage	<5.5V	<5.5V	<5.5V
Circuit "Close" Resistance	<1500 ohm	<1500 ohm	<300 ohm
Circuit "Open" Resistance	10M ohm	10M ohm	10M ohm
Linearity	X & Y Axis < 1.5%	X & Y Axis < 1.5%	Inner AA ≤ 1% Perimeter of AA ≤ 1.5%
ENVIRONMENTAL			
Operating Temperature	-20 ° C to +70 ° C	-20 ° C to +70 ° C	-20 ° C to +70 ° C
Storage Temperature	-40 ° C to +80 ° C	-40 ° C to +80 ° C	-40 ° C to +80 ° C
Reliability –temp/humidity	50 ° C/80%RH at 288 hrs.	50 ° C/80%RH at 288 hrs.	60 ° C/90%RH at 504 hrs.