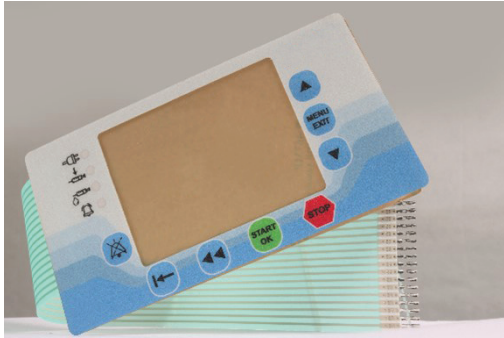


Technical capability summary

Membrane switch keypad



The membrane switch keypad is a thin man-machine interface.

It is assembled with a succession of film layers which gives it great robustness. It can be used in constraining environments with dust or high level of humidity. Integrated LEDs and keys are used to transmit information between the user and the machine.

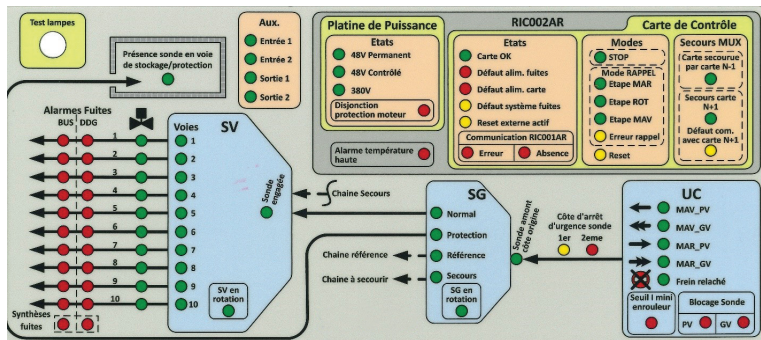
A screen or touch screen can also be integrated through a window or an opening on it.

Basic Information	Standard	Standard
GENERAL		
Maximum dimensions:	450mm x 300mm	450mm x 600mm
Minimum thickness:	0.7mm	Same
Maximum protection IP:	IP65	Same
FRONT PANEL		
Type of printing	Digital printing (CMJN) Screen-printing	Same
Type of finishing:	Structured Polished	Same
Type of varnish:	Translucent Infrared Clear Textured	Same
Color range:	Pantone / RAL	Same
Number of colors:	Illimited	Same
Material type and thickness:	PET [75µm-375µm] PEN [75µm-375µm] Polycarbonate [125µm – 500µm] PMMA [0,8mm – 5mm] PU [300µm -600µm]	Same
Optional coating characteristics:	Anti-scratch Anti-microbial Anti-glare UV-resistant	Same

ELECTRICAL CIRCUIT		
Track width:	[1mm – 2.54mm]	0.5mm mini
Circuit structure:	Single layer Double layer Triple layer Hole via	Same
Connection:	Crimping 36 points max at 2.54mm pitch (male or female) ZIF	Cables
Protection layer:	Varnish PET protective film [50 à 75 µm]	Same
Inks:	Silver ink Carbon ink Dielectric	Same
Material:	PET PEN	Kapton
ELECTROLUMINESCENT INKS		
Colors available:	White Blue	Same
Power supply:	150V – 400Hz	Same
LED:		
Color range:	Top or side	Same
Number of colors:	Model 1206 3.2 x 1.5 x 0.35mm	Model 0805 2.0 x 1.25 x 0.80mm
Material type and thickness:	Model LTST 020 3.8 x 1.2 x 0.6mm	Same
Optional coating characteristics:	Simple Double RGB	Same
KEY:		
Type of key:	Metal cup Ink contact	Same
Type embossing:	Domed surface Raised flat surface Raised key contour	Same
Maximum embossing height:	3x material thickness	Same
Cup dimensions:	[6mm-16mm]	30mm maximum
Cup surface density:	[170g – 400g]	Same
Backlight:	Yes in the center of the metal cup	Same
ADHESIVE:		
Type of adhesive:	Acrylic Acrylic + Silicone Low surface tension	Same
Thickness:	[50µm - 350µm] 3M	Same
Colors:	Transparent Opaque (grey/white) Opaque (black)	Same

Technical capability summary

Overlay



An overlay or front panel covers is a simple way to make a surface decorative or/and functional.

Simple to apply with an integrated adhesive, it is wear resistance.

It can be embossed to permit the use of button and be all shape and all dimensions.

Basic Information	Standard	Standard
GENERAL		
Maximum dimensions:	400mm x 350mm	650mm x 500mm
Minimum thickness:	0.125mm	Same
Type of printing:	Digital printing (CMJN) Screen-printing	Same
Type of finishing:	Structured Polished	Same
Type of varnish:	Translucent Infrared Clear Textured	Same
Color range:	Pantone / RAL	Same
Number of colors:	Illimited	Same
Material type and thickness:	PET [75µm-375µm] PEN [75µm-375µm] PMMA [0.8mm - 5mm] PU [300µm -600µm]	Same
Optional coating characteristics:	Anti-scratch Anti-microbial Anti-glare UV-resistant	Same
KEY		
Type embossing	Domed surface Raised flat surface Raised key contour	Same
Maximum embossing height:	3x material thickness	Same
ADHESIVE		
Type of adhesive	Acrylic Acrylic + Silicone Low surface tension	Same
Thickness:	[50µm - 350µm] 3M	Same

Technical capability summary

Technical label



Technical label gives clear information to the user.

Offset printing allows them to have a strong wear resistance over time.

Of all shapes and sizes, they can be delivered individually or in panel.

Basic Information	Standard	Standard
GENERAL		
Maximum dimensions:	400mm x 350mm	650mm x 500mm
Minimum thickness:	0.125mm	Same
Type of printing:	Digital printing (CMJN)	Screen-printing
Type of finishing:	Structured Polished With doming	Same
Type of varnish:	Translucent Infrared Clear Textured	Same
Color range:	Pantone / RAL	Same
Number of colors:	Illimited	Same
Material type and thickness:	PET [75µm-375µm] Polycarbonate [125µm – 500µm] PMMA [0.8mm – 5mm] PU [300µm -600µm]	Same
Optional coating characteristics:	Anti-scratch Anti-microbial Anti-glare UV-resistant	Same
ADHESIVE		
Type of adhesive	Acrylic Acrylic + Silicone Low surface tension Screen-printing glue	Same
Thickness:	[50µm - 350µm] 3M	Same
Colors:	Transparent Opaque (grey/white) Opaque (black)	Same
CONDITIONNING		
Type of conditioning	Unit In panel (several labels on a sheet)	Same

Optional coating

Material	Type of finishing	Anti-scratch	Anti-microbial	Anti-glare	UV-resistant
Polycarbonate [125µm – 500µm]	Polished	Optional	No	No	No
	Structured	No	No	No	No
PET [75µm-375µm]	Polished	Optional	Optional	Optional	No
	Structured	Yes	Optional	No	Optional
PMMA [0.8mm – 5mm]	Polished	Optional	No	No	Yes
	Structured	No	No	Yes	Yes
PU [300µm -600µm]	Structured	No	No	No	No