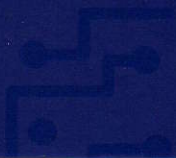




WASP

MEMBRANE TOUCH
PANELS & KEYPADS



A dependable service from the innovators in switch technology



WASP was formed in 1974 and specialises in the design and manufacture of switches for the professional, military, instrument and telecommunications equipment markets. These include standard and custom designed low current rotary switches, rotary solenoids, membrane switches and touchscreens.

The company provides a specialist design service for prototype and follow on production. This service extends to all products in the WASP range.

The company has UK manufacturing approvals to BS5750 Part 1-1987 and CECC M/0167/CECC/UK internationally to ISO 9001-1987/EN 29001-1987

Based at Havant in Hampshire, WASP employs 55 people, in a modern factory of 15000 sq. ft. which contains all administration, engineering and manufacturing facilities.

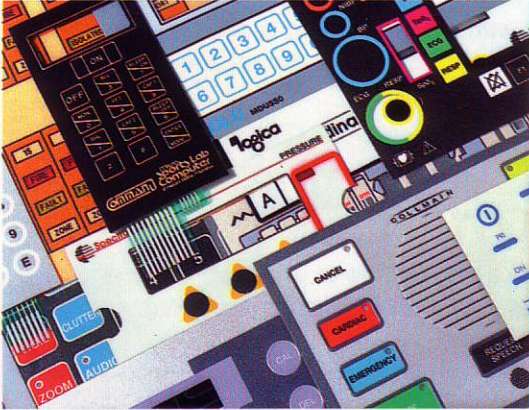
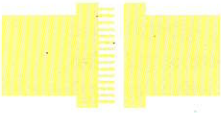
The in-house capabilities include an environmental test and measurement department, laboratory and drawing office, tool making, general machinery, injection moulding, light presswork and assembly.

With this large degree of self-sufficiency and flexibility of operation, the company offers products of the highest quality and a service which is second to none.



WASP MEMBRANE TOUCH PANELS & KEYPADS

The wide variety of membrane switch panels available from WASP is continually growing. Listed below are the most common types in use and available from WASP:



Non tactile flexible membrane

Rim embossed

Tactile platform embossed

Tactile rim embossed

Tactile graphic layer

Non tactile rigid PCB membrane

Tactile rigid PCB membrane

In turn, most of these can be supplied with the following options:

Connection

Illumination

RFI screening

Windows

Secret 'til lit

Back plates

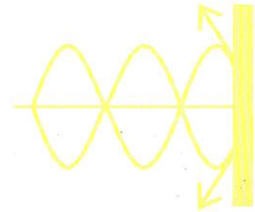
Different switching circuits

Interchangeable legends

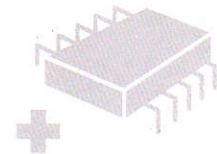
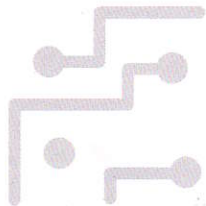
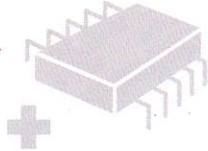
Surface textures

Added components

Sub assemblies

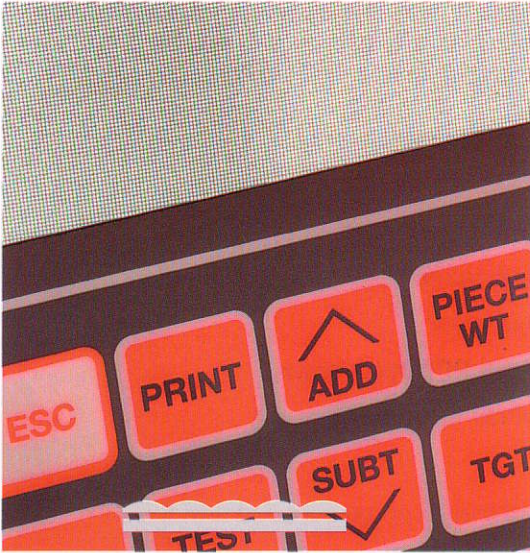


In the unlikely event that we haven't listed an option which you require, just ask our sales office.

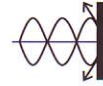




WASP MEMBRANE TOUCH PANELS & KEYPADS



RFI SCREENING



To combat RFI, a number of screening options are available. When the membrane contains a window, oxide coated polyester is used and in other situations, we advise the addition of silver ink or metal mesh. WASP designers will be happy to discuss your RFI requirements with you. Achieving a good, reliable RFI screen is reliant on interactive discussion as early as possible in the project.

WINDOWS



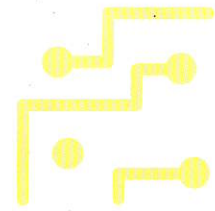
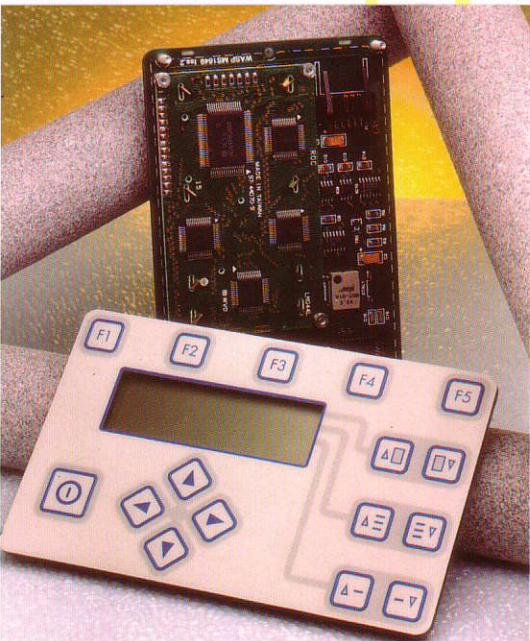
We will supply a wide range of windows, clear and tinted, to meet your membrane requirements.



ADDED COMPONENTS



WASP can extend the usefulness of a pcb backed membrane by adding circuit components and incorporating your electronic design into one complete front panel assembly. This can be expanded further by adding daughter boards and complete sub-assemblies.

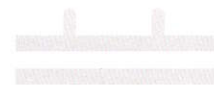




BACK PLATES

Membranes can be supplied mounted onto metal backing plates. The plate will be manufactured with the required cut outs, holes and mounting studs to enable immediate assembly on delivery.

Similarly, membranes mounted on a pcb can also be supplied with studs and fittings for instant assembly.



RIM EMBOSSING

Rim embossing is an attractive way of enhancing the graphic layer. A raised rim around each switch is both visually effective and identifies the position of each switch.

SURFACE TEXTURES

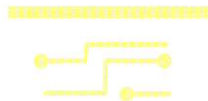
A range of durable surface UV coatings, either satin, matt or textured can be applied to the graphic layer. Visual display windows can be selectively coated semi-gloss.

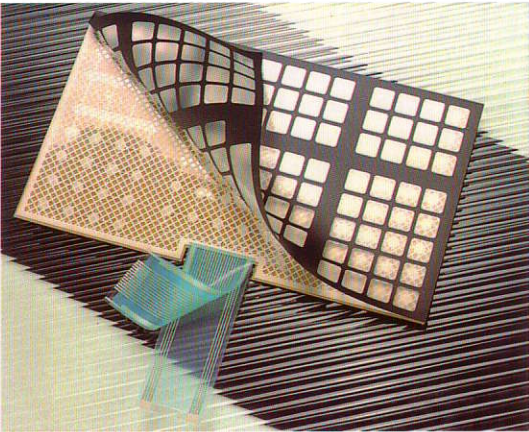
SECRET 'TIL LIT

Secret until lit text can be incorporated into your graphics 

INTERCHANGEABLE LEGENDS

For some applications, it can be advantageous to change legends or customise the front panel to suit particular needs. In these instances, WASP can supply printed blanks which can be inserted under the top layer of the membrane to provide interchangeable legends.

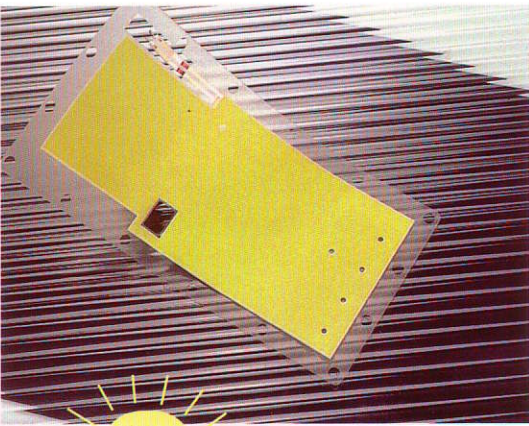




CONNECTIONS

Flexible membranes are normally provided with a tail which can then be fitted with a proprietary connector. The tail is normally ribbon style with a female connector which has a 0.1" pitch ready for connection to an appropriate male connector or in-line pins.

When the membrane is fitted to a rigid pcb, options include terminal pins or pcb connector.



ILLUMINATION

For situations where either poor lighting or darkness exists, the membrane can be illuminated in a variety of ways. At WASP, we can offer electroluminescent back lighting, acrylic light guides with lamps or leds and fluorescent plastic materials. For individual point lights, leds can be mounted directly on the pcb or incorporated in flexible membranes.

