



Replacement RS3 Operator Keyboards Membranes

- *Membrane Keyboards suffering from old age?*
- *“Sticky Keys” on keypad?*
- *Trackball unit worn out*
- *Difficulties in finding compatible replacements*

Introduction

The RS3 MTCC console offers three different membrane keyboards for process operators. Although of high quality, these membrane keyboards have a limited lifespan and will eventually need replacement due to mechanical wear and continued industrial use.

95% of all keyboard failures are due to mechanical membrane circuit or key disc failure, while keyboard electronics PCB failures are rare. Emerson Process Management only offer a replacement of the complete keyboard as a unit.

Optomation Systems offers replacement membranes for all RS3 keyboards for use with existing systems.

Replacing a keyboard sub assembly consists of substituting the polycarbonate front key display and the base board which contains the mechanical key assembly and keyboard electronics connectors

The new sub assembly contains no software, firmware or electronics and is transparent to the RS3 operating system. Installation time is usually less than 15 minutes.



Redesigned using today's membrane technology, the replacement membrane will provide you with many more years of continued use, while minimizing factory maintenance costs. Our confidence in overall quality and customer satisfaction allows us to offer a 1 year money back guarantee on this 100% compatible product.

Replacement MTCC Main Operator Keyboard Membrane

The main operator keyboard is the primary tool for control of the plant. It contains the numeric entry keyboard, alarm panel, continuous and discrete loop controls and system display function keys.

To replace the faulty keyboard sub assembly, simply peel off the existing surface membrane, remove the base board (4 nuts), clean the exposed surface, and replace with the new adhesive keyboard assembly.

Replacement MTCC 32 Callup Button Option Keyboard Membrane

The MTCC 32 Callup Button Option Keyboard allows the association of specific displays to specific keys. Up to 96 keys can be assigned with the use of 3 keyboards. Associated LED active alarms illuminate a high quality LED indicator next to the corresponding key.

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To replace the faulty keyboard sub assembly, simply peel off the existing surface membrane, remove the base board (4 nuts), clean the exposed surface, and replace with the new adhesive keyboard assembly.

Replacement MTCC Trackball Membrane Key Pad

The trackball panel is an integral part of the RS3 operator console. It houses the black trackball unit, interface electronics and the membrane keypad assembly for the most commonly operator functions. [ENTER] [SELECT] [CRT] [HOME] [RECL] etc.

To replace the faulty keypad sub assembly, unscrew the outer casing, remove the 4 supporting nuts and unplug the 3 board trackball keypad electronics, peel off the remaining surface membrane, clean the exposed surface, and replace with the new adhesive trackball keypad assembly

Replacement Trackball Unit

The trackball is an integral part of the RS3 operator console. It controls movement of the cursor in any screen including Process Graphics, Group Displays, Trend Displays and is fundamental to the operation of the process. While general cleaning may prolong its lifespan, based on a mechanical roller movement and prone to damage through dirt, contamination and general wear and tear, the trackball unit typically needs replacement every 5 years.

Optomation Systems offers a 100% compatible replacement trackball unit for existing RS3 Operator Controls. Simply unscrew the existing outer casing, unplug the gray RJ45 communication connector and replace with the new sealed trackball unit. This is transparent to the RS3 operating system. Installation time is usually less than 15 minutes.

Emerson Process Management migration path

Emerson Process Management (formally Fisher Rosemount) is commercially and technically committed to substituting the MTCC consoles with Delta-V Operate Consoles. No further improvement to existing MTCC console functionality is anticipated.

Part Numbers

OSMOK01	Replacement Main Operator Keyboard Membrane
OS32K02	Replacement 32 Key Call Up Option Keyboard Membrane
OSMTB1	Replacement Trackball Keypad Membrane
OSTBA1	Replacement Sealed Trackball Unit

Please note these part numbers are not recognized by Emerson Process Management or their representatives.

Optomation Systems

Optomation Systems is a independent software house, with nearly 20 years experience of the RS3 Distributed Control System. In addition to RS3 application software, Optomation also supports compatible products and solutions that provide independent migratory paths and life extension for the RS3 control system. This activity is not endorsed or supported in any way by Emerson Process Management.

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