

OS3 Manual Control Points

Technical information and operating instructions



Product Description

Available in two variants, the OS3 Manual Control Point (MCP) offers options to suit different operational needs.

The Standard OS3 MCP is designed to allow the Fire & Rescue Service to manually override the smoke control system through a user-friendly interface. Design includes an open button and a close/reset button, which are accessed by lifting the clear front door.

The OS3 Tamper-Proof MCP is specifically designed to prevent nuisance activation while still providing all the essential functionality required of a manual control point.

Both are designed to meet prEN12101 part 9.

Environmental Control & Sensor Integration

OS3 MCPs include a built-in thermistor for real-time temperature monitoring, enabling precise environmental control.

Universal I/O connections support integration with rain sensors, air temperature sensors, and fire alarms.

A local microcontroller handles signals and actuators directly at the MCP, reducing reliance on central panels and simplifying system design.

Installation & Compliance Advantages

Addressable backplates and built-in control logic reduce hardware needs and speed up commissioning.

The system retains settings during upgrades or replacements, while EMC compliance ensures reliable performance in tough environments

Only to be installed by competent and trained engineers.

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1.0 General Information

1.1 Product Components

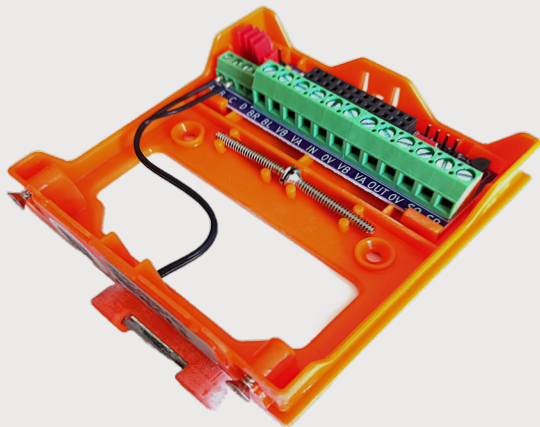


Product Description	Item Number
OS3 MCP Module Assembly ¹	FCS00300041

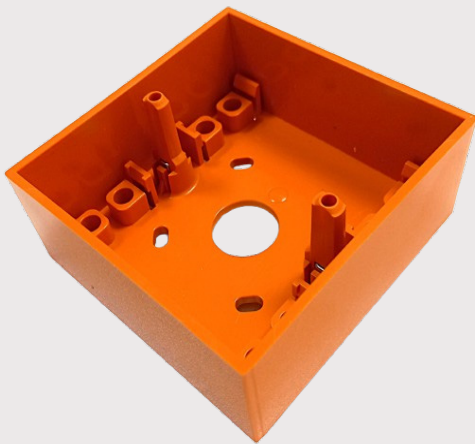
¹ The clear plastic front cover of the standard MCP can be replaced if missing or damaged - Item Number FXS00200053



Product Description	Item Number
OS3 Tamper Proof MCP Module Assembly	FCS00300042



Product Description	Item Number
OS3 MCP Adaptor Plate Assembly	FCS00300040



Product Description	Item Number
MCP Surface Mounting Box	FYS15040061



Product Description	Item Number
Activation Key - Open Only OS3/OS2/OSLoop Key Operated MCP	FCS00200033

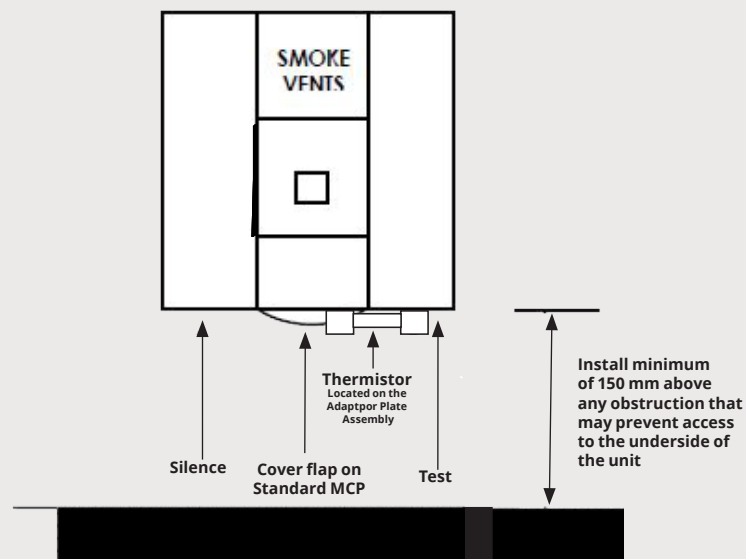


Product Description	Item Number
MCP Dumb Reset Key Assembly	FXS00200024

2.0 Installation

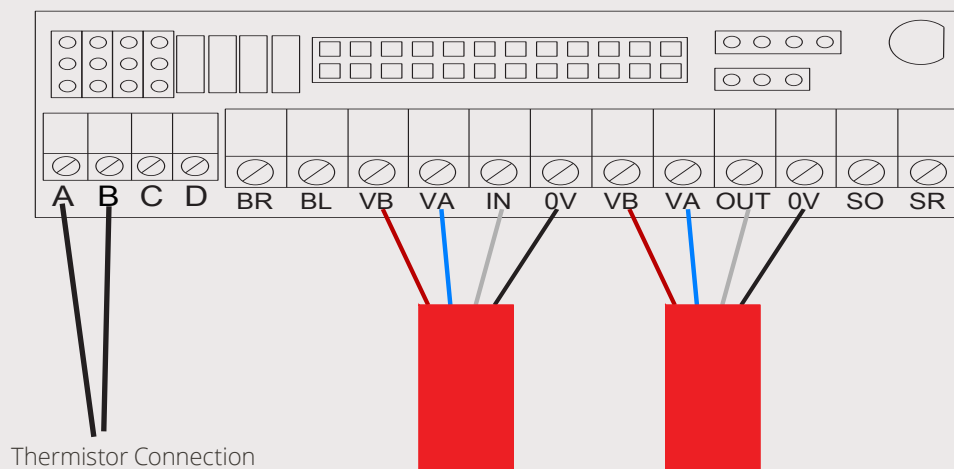
2.1 Installation Position

It is important that the MCP is located a minimum 150mm away from any obstruction below it. This will allow the fixing screws to be tightened correctly and access to the reset key slot in the underside of the unit.



2.2 Connection to the OS3 MCP

The main OS3 cables connect the coordinator to MCP and MCP to MCP as follows:



Ensure a consistent colour scheme is used all around the loop

There is no need to identify the incoming and outgoing cables as the MCP will function equally well with the in and out connections swapped.

*The cable outer screen is left unconnected

2.3 Installation Guide and System/Vent Status

Item	Instructions	Additional Information
Cover Flap	The OS3 MCP has a polycarbonate cover protecting the “Open” and “Reset” push buttons from accidental operation. This cover can be opened by pulling firmly on the lowest part of the cover. Once opened, the cover cannot be properly closed without use of a reset key inserted in the slot on the underside. There is no cover flap on the Tamperproof MCP.	
“Open” Push Button	Depressing the “Open” push button places the OS3 controller into the “Activated” state. Typically, this will cause the controlled smoke vents to open.	OS3 MCP Module Assembly Only
“Reset” Push Button	Depressing the “Close” push button resets the OS3 controller from “Activated” state. Typically, this will cause the controlled smoke vents to close whilst the push button remains depressed.	OS3 MCP Module Assembly Only
“Test” Push Button	The “Test” pushbutton mounted on the underside face of the module assembly allows a brief functional test of the installed unit. Depressing the push button illuminates the 3 status LEDs and causes the sounder to sound.	
“Silence” Push Button	The “Silence” push button mounted on the underside face of the module assembly allows the sounder output to be silenced at any time.	
Green “Power” LED	Illuminates to show power is available. The LED briefly blinks off to indicate the MCP has been activated, and can only be reset using the electronic reset key.	
Red “Activated” LED	Illuminated when the OS3 controller is activated on fire condition.	
Yellow “Fault” LED	“Fault” LED off – No faults or statuses to report “Fault” Flashing (50/50) – Further OS3 controller fault diagnosis or maintenance required	
Audible “Sounder”	The sounder (if enabled) will commence sounding if: • The attached OS3 system activates on fire. • The attached OS3 system indicates a fault. • The local “Open”, “Reset” or “Test” push buttons are operated. To silence the sounder depress the “Silence” push button.	



Important: When transporting, unpacking, or installing the MCP adaptor plate assembly, avoid applying pressure to the underside of the unit. The thermistor located on the base is a delicate component and can be easily damaged if mishandled.

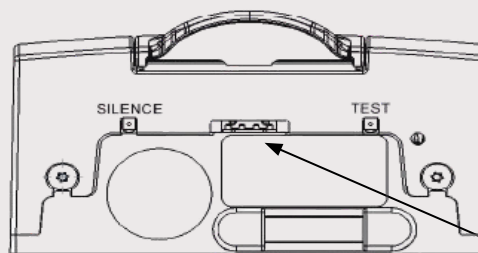
3.0 Standard Operating Procedure

3.1 Functionality

Function	Description
Activation Open	Standard MCP¹ - via Red Button Tamper Proof MCP - via Activation Key
Close / Reset	Press and hold the black button until vent closes fully
Flashing Green LED	On any activation the green LED will flash and will require use of the dumb reset key to make the LED solid green

3.2 Key Slot

Located on the underside of the MCP is a slot designed for an electronic reset key.



Do not insert anything other than the specially designed key into this slot.

Key position on the underside of the MCP

The key must be inserted with electrical contacts facing away from the user. Inserting a dumb reset key will reset the green blinking indication (see item 2.3 on the previous page).



FCS00200042 OS3 Tamperproof MCP only : The key slot also allows use of electronic activation key FCS00200033..

On the standard MCP the reset key may also be used to close the plastic front cover plate.



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