

# OS2 Manual Control Points

Technical information and operating instructions



## Product Description.

The OS2 Manual Control Point provides indication of the OS2 SHEVTEC Controller condition and provides high priority open and close controls.

There are two product variants:

### Standard MCP.

The 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.

Fully designed in accordance with pr EN 12101 Part 9.

System status, operation, fault finding and cable monitoring is all included within the features of the MCP (OSLoop Version only) as required by the standard.

### Tamper-proof MCP.

The Tamper Proof MCP is designed to eliminate nuisance activation of the Smoke Control System whilst delivering the full functionality required of an MCP in accordance with prEN12101-9.

The orange (RAL 2011) MCP displays system and vent status visibly through three LEDs, "power, fault and activated" (all requirements of the prEN standard).

Both MCPs are mounted on the same OS2 MCP Adapter Plate Assembly.

**Only to be installed by competent electricians.**

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# 1.0 General Information

## 1.1 Product Components

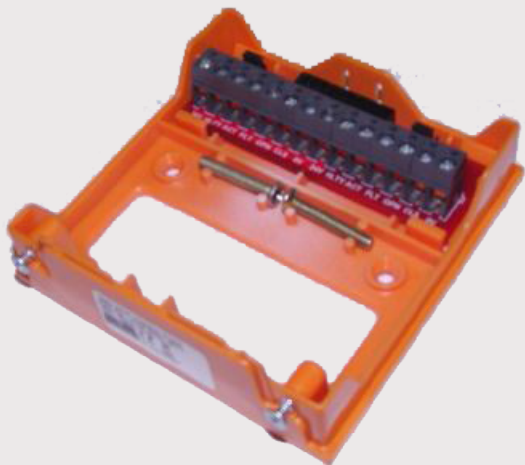


| Product Description                  | Item Number |
|--------------------------------------|-------------|
| OS2 MCP Module Assembly <sup>1</sup> | FCS00200016 |

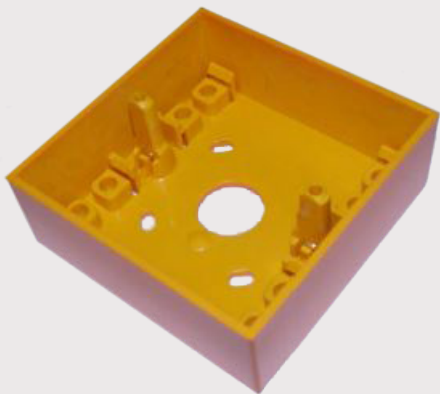
<sup>1</sup> The clear plastic front cover of the standard MCP can be replaced if missing or damaged - Item Number FXS00200053



| Product Description                  | Item Number |
|--------------------------------------|-------------|
| OS2 Tamper Proof MCP Module Assembly | FCS00200037 |



| Product Description            | Item Number |
|--------------------------------|-------------|
| OS2 MCP Adaptor Plate Assembly | FCS00200017 |



| Product Description      | Item Number |
|--------------------------|-------------|
| MCP Surface Mounting Box | FYS15040061 |



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

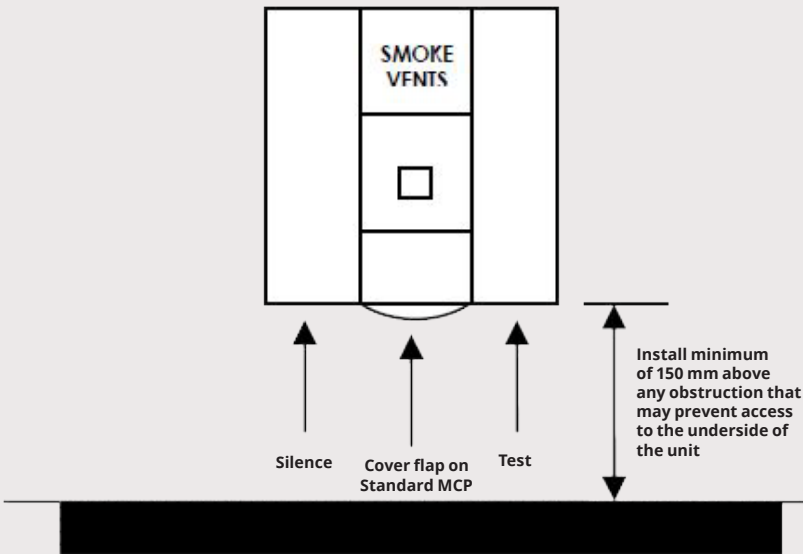


| Product Description         | Item Number |
|-----------------------------|-------------|
| MCP Dumb Reset Key Assembly | FCS00200024 |

# 2.0 Installation

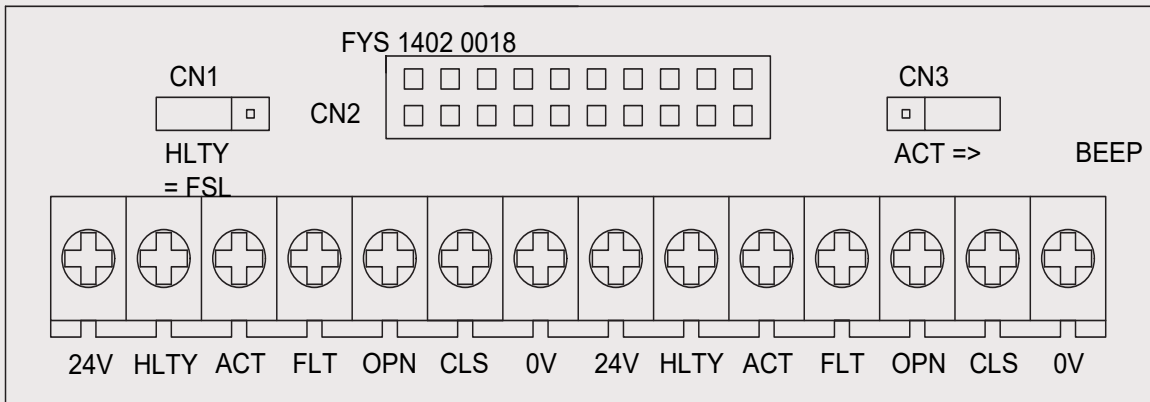
## 2.1 Installation Position

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 OS2 MCP

All connections to the OS2 MCP are made via the connection PCB mounted within the adapter plate assembly. (See the diagram below).




| MCP Terminal | OS2 Terminal | Description   |
|--------------|--------------|---|
| 24V          | PER          | 24 V dc power supply rail from OS2 Controller.                        |
| HLTY         | FSL          | Healthy indicator - Fireman's switch lamp output from OS2 Controller. |
| ACT          | -            | No connection required /made for OS2 systems.                         |
| FLT          | -            | No connection required /made for OS2 systems.                         |
| OPN          | FSO          | Open demand - Fireman's switch open demand.                           |
| CLS          | FSC          | Open demand - Fireman's switch open demand.                           |
| 0V           | OVP          | 0V power supply rail from OS2 Controller.                             |

The jumper CN1 must be fitted in the left hand ("HLTY=FSL") position.

The jumper CN3 enables and disables the sounder. The default is enabled (left)

The MCP must be secured using the two fixing screws (Torx-T8) on the underside of the MCP

## 2.3 Installation Guide and System/Vent Status

| Item                         | Instructions  | Additional Information  |
|------------------------------|---|---|
| <b>Cover Flap</b>            | <p>The OS2 MCP has a polycarbonate cover protecting the “Open” and “Reset” push buttons from accidental operation.</p> <p>This cover can be opened by pulling firmly on the lowest part of the cover.</p> <p>Once opened, the cover cannot be properly closed without use of a reset key inserted in the slot on the underside.</p> <p>There is no cover flap on the Tamperproof MCP.</p> |  |
| <b>“Open” Push Button</b>    | <p>Depressing the “Open” push button places the OS2 controller into the “Activated” state.</p> <p>Typically, this will cause the controlled smoke vents to open.</p>  | OS2 MCP Module Assembly Only  |
| <b>“Reset” Push Button</b>   | <p>Depressing the “Close” push button resets the OS2 controller from “Activated” state.</p> <p>Typically, this will cause the controlled smoke vents to close whilst the push button remains depressed.</p>   | OS2 MCP Module Assembly Only  |
| <b>“Test” Push Button</b>    | <p>The “Test” pushbutton mounted on the underside face of the module assembly allows a brief functional test of the installed unit.</p> <p>Depressing the push button illuminates the 3 status LEDs and causes the sounder (if enabled by CN3 above) to sound.</p>  |   |
| <b>“Silence” Push Button</b> | <p>The “Silence” push button mounted on the underside face of the module assembly allows the sounder output to be silenced at any time.</p>   |   |
| <b>Green “Power” LED</b>     | <p>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.</p>   |   |
| <b>Red “Activated” LED</b>   | <p>Illuminated when the OS2 controller is activated on fire condition</p>   |   |
| <b>Yellow “Fault” LED</b>    | <p>“Fault” LED off – No faults or statuses to report</p> <p>“Fault” Flashing (50/50) – Further OS2 controller fault diagnosis or maintenance required</p>   |   |
| <b>Audible “Sounder”</b>     | <p>The sounder (if enabled) will commence sounding if:</p> <ul style="list-style-type: none"> <li>• The attached OS2 system activates on fire.</li> <li>• The attached OS2 system indicates a fault.</li> <li>• The local “Open”, “Reset” or “Test” push buttons are operated. To silence the sounder depress the “Silence” push button.</li> </ul>                                       |   |

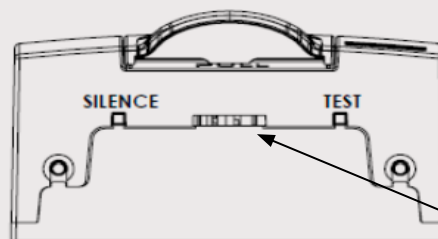
## 3.0 Standard Operating Procedure

### 3.1 Functionality

| Function           | Description   |
|--------------------|---|
| Activation Open    | <b>Standard MCP<sup>1</sup></b> - via Red Button<br><b>Tamperproof MCP</b> - 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.



Key position on the underside of the MCP

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

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 4.6 on the previous page).



**FCS00200037 OS2 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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