
Introduction

The MCP820 Addressable Manual Call Point is suitable for indoor applications. As supplied, it is suitable for flush mounting. A surface mounting back box is available separately. The MCP820 is designed to monitor and signal the condition of a switch contact that is operated by breaking a plastic coated glass frangible element (flexible plastic option available). Any change in the status of the switch is immediately communicated to the Tyco MX Control and Indicating Equipment (CIE).

The MCP820 has an integral short-circuit isolator for monitoring the addressable loop wiring. The integral LED indicator is normally off. When the frangible element is broken, an alarm is registered and the LED will illuminate red. If a section of the loop wiring adjacent to the MCP820 is shorted, the built-in short circuit isolator trips, isolating the shorted section and the LED is illuminated yellow. The status remains until the short is removed.

Figure 1: MCP820



Features

- Compatible with *MX* Addressable Loop on VIGILANT *MX1* and VIGILANT *MX4428* panels
- Integral short circuit isolator
- LED status indicator
- AS ISO 7240-11 and AS ISO 7240-17 certification
- Compact, modern styling
- Test key for fast testing

Specifications

Table 1: Specifications

Item	Description
Loop voltage	20 V to 40 VDC Addressable loop voltage is provided by <i>MX</i> CIE.
Quiescent current	280 μ A
Alarm state current	2.8 mA
Max MCP820/loop	200/250 <i>MX4428/MX1</i> . For design specifications, refer to LT0273 (<i>MXP</i>), LT0360 (<i>MX1-NZ</i>), and LT0441 (<i>MX1-Au</i>).
Environment	Indoor application only
Ambient temperature	-10°C to +55°C
Storage temperature	-30°C to +70°C
Relative humidity	10% to 95% non condensing
Ingress protection	IP24D
Dimensions	93 mm x 89 mm x 45 mm (H x W x D)
ActivFire Listing	afp-2874 (AS ISO 7240-11:2018 and AS ISO 7240-17:2021)

Order information

Table 2: Order information

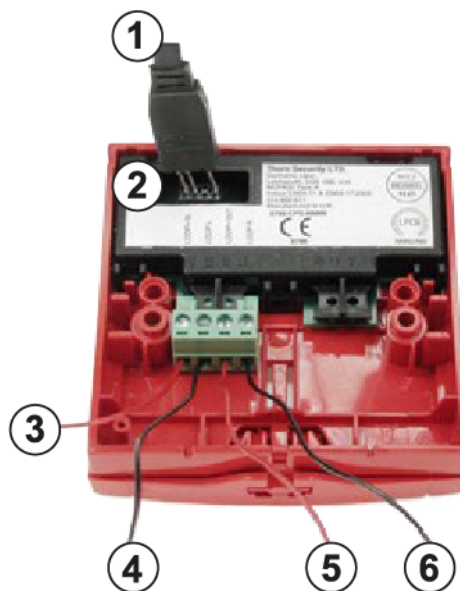
Product	SKU
MCP820 Manual Call Point, no back box	514.800.611
Surface Mounting Back Box	SU0632
5 x Frangible Glass Element	515.001.025
Flexible Plastic Element	515.001.127
10 x Test Key	SC070
Transparent Hinged Cover	SU0615

Wiring

The MCP820 has a factory set (invalid) address of 255. The MCP820 is field programmed with the address prior to installation using an *MX* address programming tool. The associated ancillary programming lead plugs into the programming port.

Ensure that the pins of the ancillary programming lead are inserted completely into the lower row of the programming port for effective communication with the address programming tool.

Figure 2: MCP820 wiring details

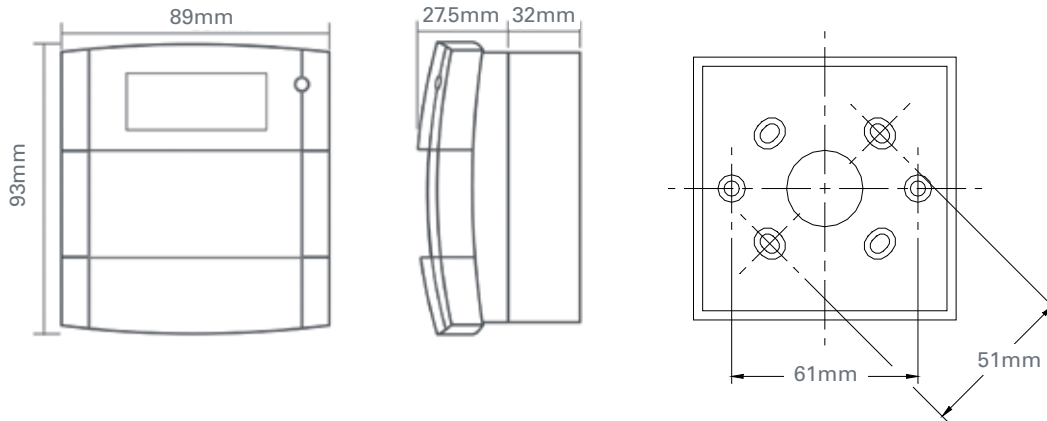


Callout	Component
1	Ancillary programming lead
2	Ancillary programming port
3	Connected to loop + IN
4	Connected to loop - IN
5	Connected to loop + OUT
6	Connected to loop - OUT

Installation

The MCP820 may be fitted to a standard (surface mounting) call point back box that is available separately.

Figure 3: Installing the MCP820

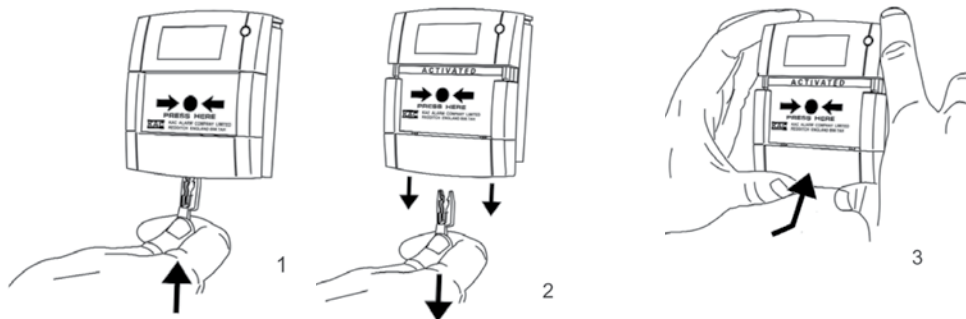


Testing

A test key is provided with each MCP to allow easy testing of the switch mechanism and wiring, without breaking the frangible element. The key is inserted into a slot in the base of the MCP, allowing the frangible element to drop away from the switch, thus activating it and registering an alarm at the CIE.

- ⓘ **Note:** The key should not be left with the MCP after commissioning, but may be left inside the CIE for convenience.

Figure 4: Testing the MCP820



Contact information

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