

C-9201 Conventional Manual Call Point Installation and Operation Manual

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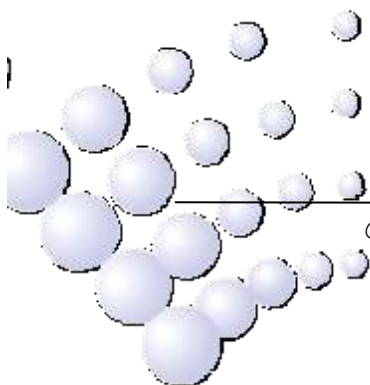


GST  **Global System Technology PLC**



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I General

C-9201 Conventional Manual Call Point (hereinafter called the MCP) is installed in public places. When fire alarm is confirmed manually, press this MCP, alarm signal can be sent to the controller. After receiving the alarm signal, the controller will show the serial number of compatible controller, and vocalize alarm sound.

II Features

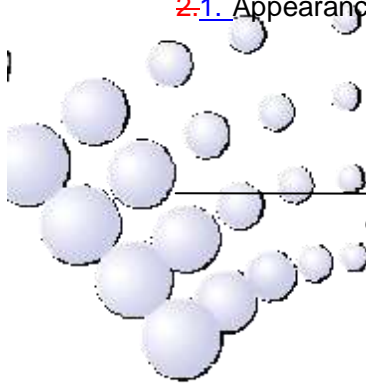
1. Plugging structure, simple and convenient for installation; Mount the base first, then mount the MCP for power-on commission after wiring commission. The glass on the MCP can be reset by a special tool after pressed.
2. Press the glass on the MCP, the MCP can provide an independent output contact.

III Technical Specifications

1. Operating Voltage: Power Loop Voltage: DC24V, Range Allowed: DC~~12V~~~~28V~~~
DC~~12V~~~~28V~~
2. Operating Current: Standby Current 0mA
Alarming Current \leq 30mA
3. Output Capacity: Rating DC60V /100mA passive output contact signal, contact resistance \leq 100m Ω
4. Type of Initiating Part: Reusable
5. Initiating Mode: Pressing the glass manually
6. Resuming Mode: Manually resumed by a sucker
7. Fire Alarm Indicator: Red, not lit when in normal state and lit after alarming.
8. Wiring: two-wire
9. Operating Environment: Temperature: -10 $^{\circ}$ C~+50 $^{\circ}$ C
Relative Humidity \leq 95%, no condensation
10. Dimension: 90mm \times 122mm \times 48.5mm
11. Degree of Protection of Enclosure: IP40
12. Material and Color of Enclosure: ABS, Red
13. Weight: 221g(including the base)
14. Mounting Hole Distance: 65mm

IV Structure and Operation Principle

2-1. Appearance of the MCP is shown in Fig.1.



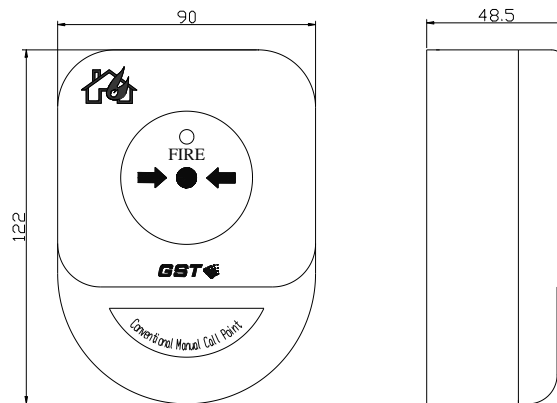


Fig.1 Appearance

2. Operation principle

The alarming mode of this MCP is by pressing, self-locked by mechanical structure to reduce possibility of mis-triggering alarm. There is an LED in the MCP to indicate its operation state.

V Mounting and Wiring

Warning: Before installing the MCP, disconnect the power from the loop and verify that all bases are securely installed and that the wiring polarity is correct at each base.

1. Before installation, check whether the enclosure sound or not, and labels complete or not.
2. When installing, unplug the MCP, thread the cable through the wiring hole of the base box and connect it to the corresponding terminal, plug the MCP to finish installation. The mounting hole distance is 65mm (Fig.4). The base of the MCP can be surface mounted or flush mounted as shown in Fig.2 and 3.

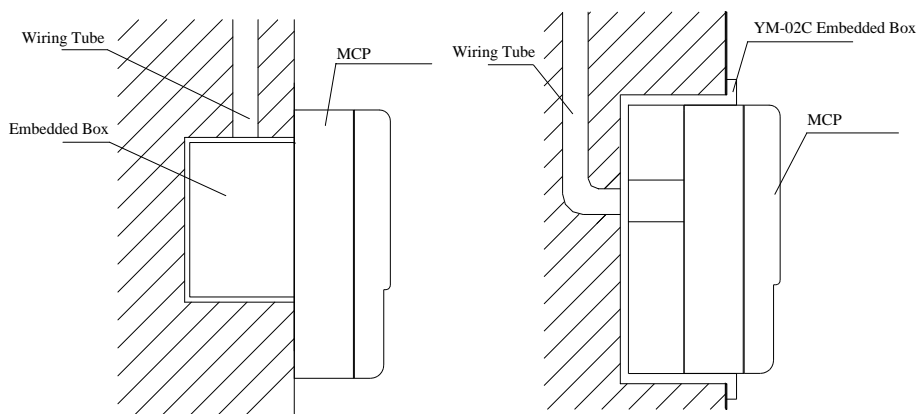


Fig.2 Base surface-mounted

Fig.3 Base flush-mounted

3: Terminals of the MCP are shown in Fig.4.

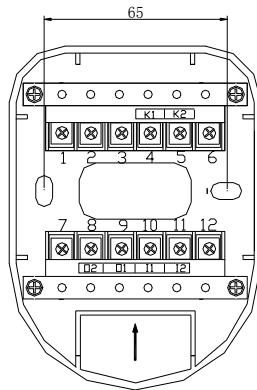


Fig.4 Terminals

I1, I2: To next MCP or active end of line unit.

K1, K2: Normally open output terminal.

O2, O1: To next MCP or end of line unit.

4. Wiring:

RV or BVR cable with cross section $\geq 1.0\text{mm}^2$.

VI Testing

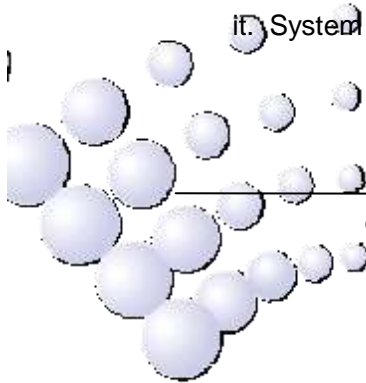
Warning: Power up only after all devices are well connected.

1. Test should be made to the MCP after installation and at least once a year after put into operation.
2. Before testing, notify the proper authorities that the system is undergoing maintenance and will temporarily be out of service. Disable the zone or system undergoing maintenance to avoid unwanted alarms.
3. Press the glass on the MCP, the red alarm LED should be lit.
4. After testing, resume the MCP by a sucker. Notify the proper authorities the system is back in operation.
5. If an MCP fails in testing, check its connection and test again. If it still fails, return for repair.

VII Applications

The MCP can be used together with different conventional detectors in compatible controller system to carry out detection.

1. When P-9907 Active End of Line Unit is connected to the end of output loop, an IN5819 Diode should be connected to the detector base. The active end of line unit can be used as a detector base, that is, a conventional detector can be installed on it. System composition is shown in Fig. 5.



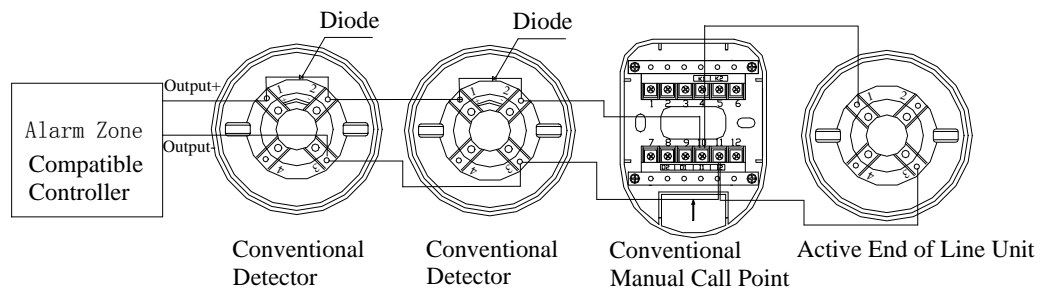


Fig. 5 System wiring

- When the active end of line unit is not used as a detector base, system application is shown in Fig. 6.

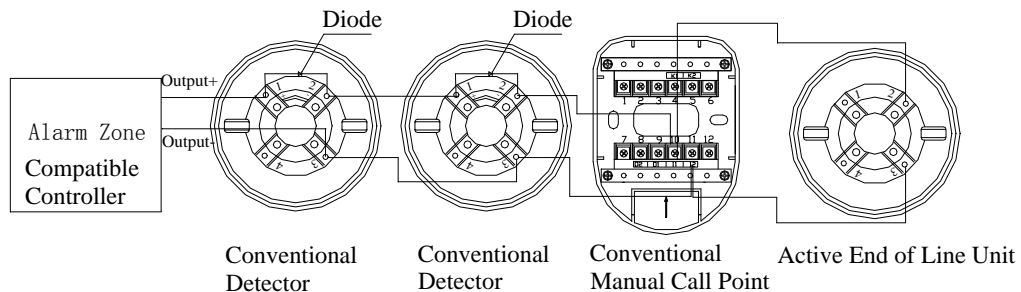


Fig. 6 System application

- When the active end of line unit is not used in the output loop, a 4.7kΩ resistor can be connected to the end of loop. 1N5819 Diode is not connected to the detector base. System application is shown in Fig. 7.

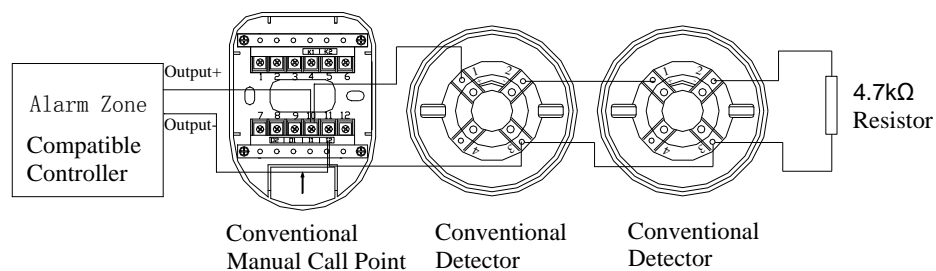


Fig. 7 System application

VIII Cautions

- In installation, the total number of conventional detectors and manual call points should not be over 15.
- Never repair the MCP on site with power on. Operation should be made according to relative regulations.

