



# Conventional Fire Alarm Control Panel

GST-102

## Description

The GST102 conventional fire control panels provide two zones of fire detection. These panels have been designed to offer high standards of performance, reliability and quantity and comply fully with BS5839, Part 4, 1988 and EN 54 parts 2 and 4. Each zone can be connected with 15 conventional fire detectors. Operation of the panel are very simple. All control functions are realized through a key switch.

### Microprocessor controlled SMT Electronics

The GST102 conventional control panels are multi-wire fire alarm developed from SCM. Those with signal output interface board has a passive normally open alarm output contacts and fault output contact on each zone. They have two external control output points to control some devices such as sounder, sounder strobe or bells.

Designed with internal standby battery connection and housing. Multiple functions like isolation and test, setting day/night mode, indication of normal state, fault state, alarm state, short and open circuit alarm and identifying the location of detector zone. All control function is realized through a key switch and programming function realized through a key switch and a DIP switch.

The GST conventional panels includes an advanced range of facilities which make this the Ideal panel for both standalone solutions, or integrated to larger systems in applications such as, shopping Centers and industrial complexes.

## Features and Benefits

1. Microprocessor controlled SMT Electronics
2. Compliant with EN54 part 2&4, & BS5839, Part 4, 1988
3. Both end of line resistors and active end of line can be used.
4. Programmable sounder circuits and outputs
5. Zone Isolate control
6. Fully monitored sounder circuits
7. Key control evacuate over-ride
8. Class change terminals for remote control
9. Up to 15 fire detectors and infinite manuals call points each zone
10. Optional Relay Board, 2 Fire & 2 Fault Outputs

## Technical Specifications

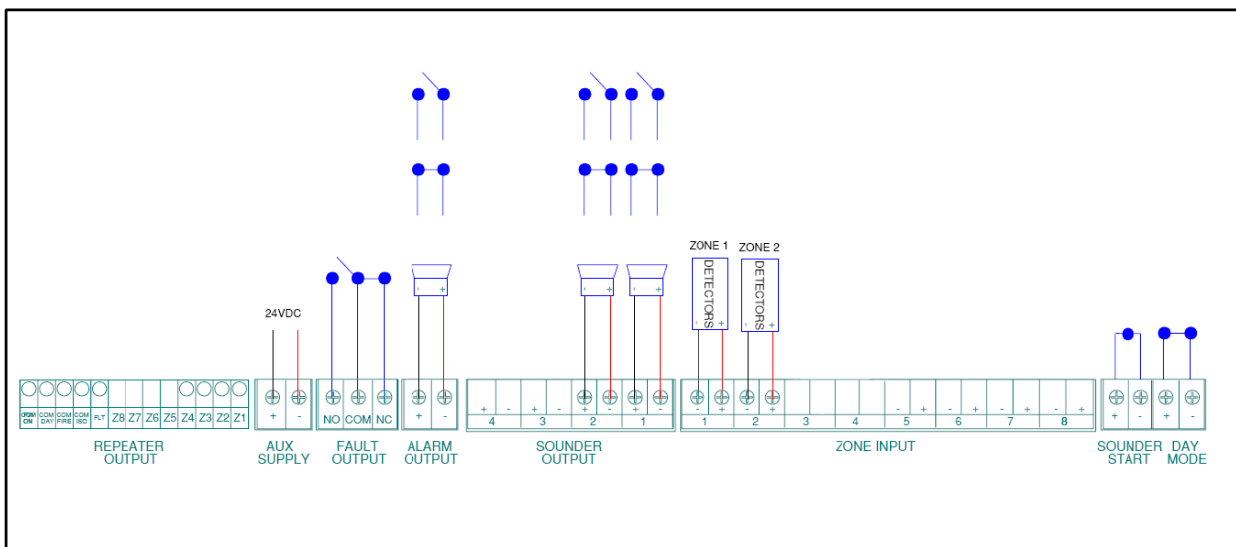
1. **Standard** EN54: 2 and 4
2. **Approval** LPCB
3. **Main Input Voltage** Input Voltage: 230VAC<sup>+10%</sup>-15% /Frequency: 50Hz/  
Fuse: 2A delayed
4. **Zone Parameters**

**Zone input:** 2/Monitored  
Up to 15 Conventional detectors  
Output Voltage: 15VDC~28VDC  
Alarm Current: 25mA  
Resistance range: Fire Signal - 150Ω~1.5kΩ  
(normally 470Ω)  
Fault Signal - 4.7kΩ end of line resistor or AEOL  
Cable: 1Km/ GST FireCable ® 1pair/1.5mm2

Optional Relay Board  
2 Fire & 2 Fault Outputs Rated @ 1 Amp 24V DC
5. **Zone Relay**
6. **Output Parameter**

**Sounder Circuit:**2/Monitored/4.7kΩ EOLR  
Output Voltage: 20VDC~28VDC/N0/NC  
Alarm Current: 130mA/per circuit  
Cable: 1Km/ GST FireCable ® 1pair/1.5mm2  
**Fire Alarm Output:**1 /Monitored//4.7kΩ EOLR  
Output Voltage: 20VDC~28VDC/N0/NC  
Alarm Current: 450mA  
**Auxiliary Output:**1  
Output Voltage: 20VDC~28VDC  
Alarm Current: Standby-20mA, Alarm-80mA  
**Fault Output:**  
Output: 0 volt free contact  
Contact Capacity: 1A/24VDC  
**Repeater Output:** Repeater terminal (refers to the installation manual)  
**SOUNDER START:** Remote access to the Sounder output  
**DAY MODE:** Remote day/night mode conversion terminal.
7. **Battery**

Optional Relay Board2x12VDC /7AH  
Minimum Operating Voltage: 21.5V  
Maximum Charging Current: 300mA  
Maximum Charging Voltage: 28V  
Battery Type: Sealed lead-acid battery  
Recommended Battery: Yuasa NP7-12



## Typical Wiring Connection

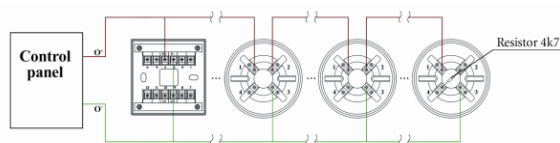


Fig.1 Using End of Line resistor, in compliance with EN/BS standard, when using EOL resistor, call points should be wired before detectors, so that the removal of any detector will not inhibit call point from operating.

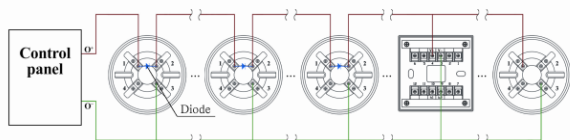


Fig.2 Using Active End of Line, enables call points to be installed in any location on zone as will not be affected by removal of detector (required base DZ-03D)

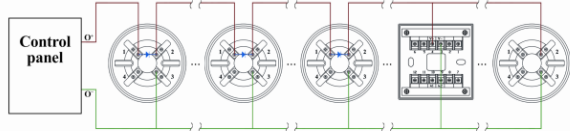


Fig.3 The same as fig.2 principle, using AEOL without detector.

## Ordering Information



**Part Number:** GST102

**Description:** 2 zones Conventional Fire Panel

**Weight / Kg.:** 5.494

**Pack Qty. per Box:** 1

## Accessories



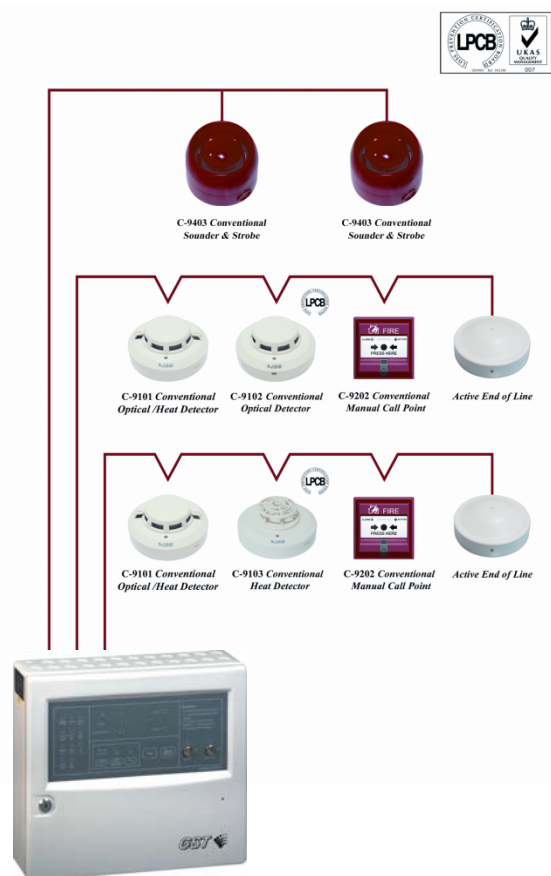
**Part Number:** RB102

**Description:** Relay Board

**Weight / Kg.:**

**Pack Qty. per Box:** 1

## Conventional Fire Alarm Systems



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