



# Conventional Fire Alarm Control Panel

GST102A/GST104A/GST108A/GST116A



## Description

The GST100A Series conventional fire control panels provide 2 to 16 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 and 17 manual call points.

### Microprocessor controlled SMT Electronics

The GST100A Series 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 GST100A Series 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

- Compliant with EN54 part 2&4
- Microprocessor controlled SMT Electronics
- Remote Access - Reset, Silence, Evacuate & Night Mode
- 2 to 16 Zone Input and 4 Sounder Circuits.
- Both end of line resistors and active end of line can be used.
- Programmable sounder circuits and outputs
- Zone Isolate control
- Fully monitored sounder circuits
- Key control evacuate over-ride
- Class change terminals for remote control
- Up to 15 fire detectors and 17 manuals call points each zone
- Optional Relay Board, 2-16 Fire & 2-16 Fault Outputs
- Listed to LPCB, CE, CPD

## Technical Specifications

- **Main Input Voltage**

**Input Voltage:** 230VAC<sup>+10%</sup>-15%/Frequency: 50/60Hz  
**Input Current:** 0.35Amp  
**Fuse:** 2A delayed
- **Zone Parameters**

**Zone input:** 2-16/Monitored  
Up to 15 Conventional detectors and 17 MCPs  
**Output Voltage:** 15VDC~28VDC  
**Standby Current:** 6mA (15 detectors)  
**Alarm Current:** 25mA  
16 Zones Alarm Current: 400mA  
**Resistance range:** Fire Signal - 150Ω~1.5kΩ  
(Normally 470Ω)  
**Fault Signal -** 4.7kΩ end of line resistor or AEOL  
**Cable:** 1Km/ GST Fire Cable @ 1pair/1.5mm<sup>2</sup>
- **Zone Relay**

Optional Relay Board (RB116)  
2-16 Fire & 2-16 Fault Outputs Rated @ 1 Amp 24V DC
- **Output Parameter**

**Sounder Circuit:** 4/Monitored/4.7kΩ EOLR  
**Output Voltage:** 18VDC~28VDC/N0/NC (Via Jumper Setting)  
**Alarm Current:** 300mA/per circuit  
**Cable:** 1Km/ GST FireCable @ 1pair/1.5mm<sup>2</sup>  
**Fire Alarm Output:** 1 /Monitored//4.7kΩ EOLR  
**Output Voltage:** 18VDC~28VDC/N0/NC  
**Alarm Current:** 300mA  
**Auxiliary Output:1**  
**Output Voltage:** 18VDC~28VDC  
**Alarm Current:** Standby-20mA, Alarm-500mA  
**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.
- **Battery**

**Battery:** 2x12VDC /7AH (16 Zones)  
**Minimum Operating Voltage:** 21.5V  
**Maximum Charging Current:** 315mA  
**Maximum Charging Voltage:** 27.6V  
**Battery Type:** Sealed lead-acid battery  
**Recommended Battery:** Yuasa NP7-12
- **Environment**

**Operating Temp:** 0°C to 40°C  
**Relative Humidity:** 95%  
**Degree of Protection:** IP 30
- **Standard & Approval**

**Standard:** EN52-2; EN54-4  
**Approval:** LPCB; CPD, CE

## Typical Wiring Connection

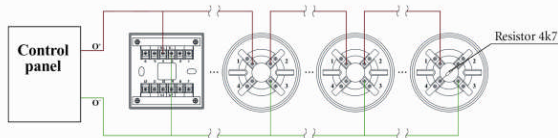


Fig.1 Using End of Line resistor, in compliance with EN/BS standard, when using EOL resistor, call points should be wired before detectors, so that the removal of any detector will not inhibit call point from operating.

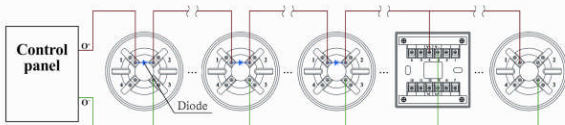


Fig.2 Using Active End of Line, enables call points to be installed in any location on zone as will not be affected by removal of detector (required base DZ-03D)

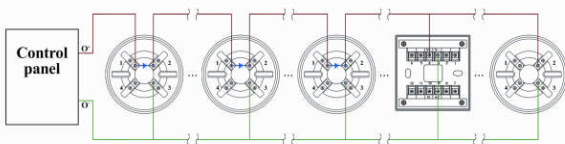


Fig.3 The same as fig.2 principle, using AEOL without detector.

## Ordering Information

**Part Number:** GST102A

**Description:** 2 zones Conventional Fire Panel

**Weight / Kg.:** 5.90

**Pack Qty. per Box:** 1

**Part Number:** GST04A

**Description:** 4 zones Conventional Fire Panel

**Weight / Kg.:** 5.90

**Pack Qty. per Box:** 1

**Part Number:** GST08A

**Description:** 8 zones Conventional Fire Panel

**Weight / Kg.:** 6.00

**Pack Qty. per Box:** 1

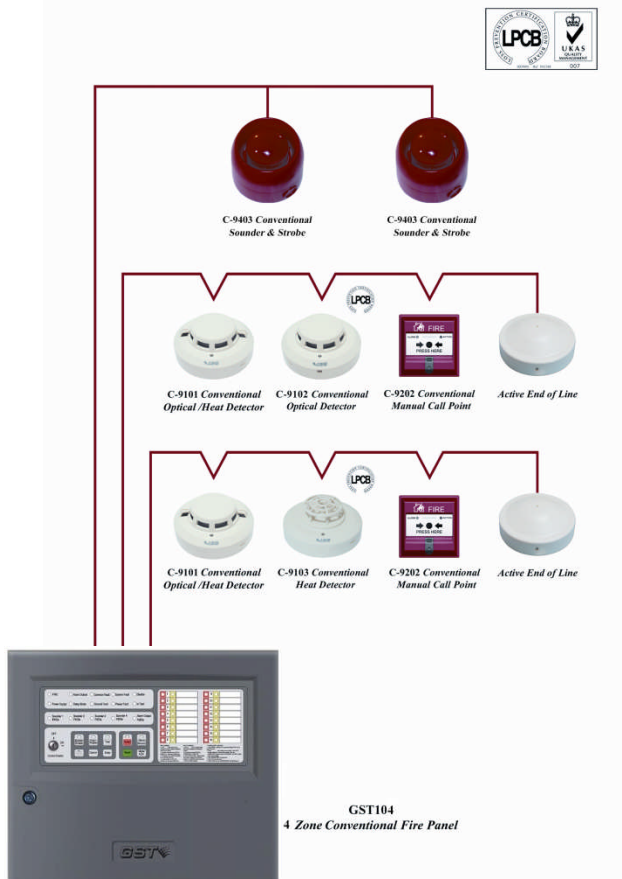
**Part Number:** GST116A

**Description:** 16 zones Conventional Fire Panel

**Weight / Kg.:** 6.00

**Pack Qty. per Box:** 1

## Conventional Fire Alarm Systems



## Accessories

**Part Number:** RB102A

**Description:** Relay Board for GST102A

**Weight / Kg.:**

**Pack Qty. per Box:** 1

**Part Number:** RB104A

**Description:** Relay Board for GST104A

**Weight / Kg.:**

**Pack Qty. per Box:** 1

**Part Number:** RB108A

**Description:** Relay Board for GST108A

**Weight / Kg.:**

**Pack Qty. per Box:** 1

**Part Number:** RB116A

**Description:** Relay Board for GST116A

**Weight / Kg.:**

**Pack Qty. per Box:** 1

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