

# GST102A

## Conventional Fire Alarm Control Panel



### Description

GST102A Conventional Fire Alarm Control Panel is designed in compliance with EN 54-2 1997 + A1: 2006 & EN 54-4 1997+A1: 2002+A2:2006 standard. It's compatible with GST conventional detectors, manual call points and sounders. The panel is easy to install and operate. Control functions are enabled by a key switch. Programming functions are enabled by a key switch and an internal switch.

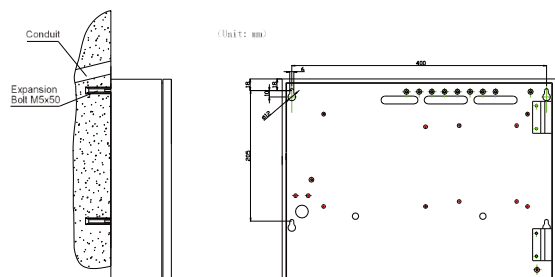
### Features and Benefits

- 2 zones. Each zone can have maximum 32 conventional detectors. The total number of detectors and call points in a zone shall not exceed 32
- Each zone can be programmed work as fire alarm (default) or supervisory alarm mode
- Each zone include 2 indicators, 1st indicator is bi-color (Red and Green), factory default to indicate fire condition. Red color on in case fire signal triggered; also can be programmed to indicate supervisory condition. Green color on in case supervisory signal triggered. 2nd alarm indicator flashes when the zone is in fault condition (0.5:0.5). And it illuminates steadily when the zone is disabled or in test mode.
- 1x Alarm output can be setup as 24V or N/O, N/C
- 3x sounder outputs, output 1 can be setup 24V or N/O, N/C, output 2 and 3 only work as 24V output
- 1x Disable/supervisory relay output (N/O COM N/C)
- 1 x Fault output (N/O COM N/C)
- 1x Auxiliary power output: output current 450mA in standby mode and Maximum 1000mA in alarm mode when the Alarm Output been set to a normally open/close contact type
- Able to report short circuit and open circuit of detection zones, sounder outputs and alarm output
- Designed with standby batteries and space provision for two sealed lead-acid batteries
- Easy operation to enable/disable zones, sounder outputs and alarm output
- Alarm Test function selectable with or without sounder notification
- Output programmable for interlink between zones and sounder outputs, alert or evacuate tone, with or without delay
- Different Silence/Reset/Test modes can be selected to meet local requirement
- Remote controls available for silence evac and reset
- Three access levels settable via key control
- Reserved repeater panel interface for fire alarm indication of multiple zones

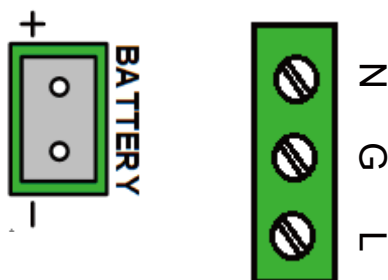
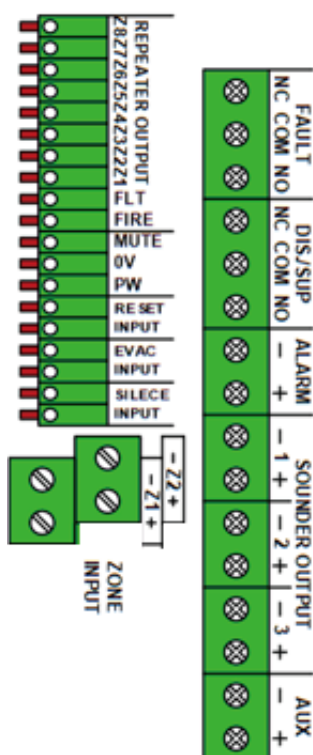
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## Installation Data

GST102A FACP is wall-mount/flush-mount combined.  
The surface mounting details is shown here.



## Terminals



FAULT (NC, COM, NO): Fault output terminal.

DIS. / SUP. (NC, COM, NO): Disable/supervisory terminal.

ALARM OUTPUT (-, +): Alarm output terminal.

SOUNDER OUTPUT (1~3) (-, +): Sounder output terminals.

AUX SUPPLY (-, +): Auxiliary power terminal.

REPEATER OUTPUT (Z1~Z8): Output terminals of repeater panel for zone 1 to 8.

FLT: Fault terminal for repeater panel connection.

FIRE: Fire alarm terminal for repeater panel connection.

MUTE: Mute terminal for repeater panel connection.

0V: Power supply negative terminal for repeater panel connection.

PW ON: Reserve terminal for repeater panel connection.

RESET INPUT: For remote operation of reset.

EVAC INPUT: For remote operation of EVAC.

SILENCE INPUT: For remote operation of silence.

ZONE INPUT (1~2): Zone 1 to 2 input terminals.

BATTERY (+, -): Battery terminals

L, G, N: Mains input terminals

## Cable Requirement

\* All cables should be fire rated and follow local codes.

Zone: 1.0mm<sup>2</sup> or above 2-core cable, Maximum 1000 meters

Sounder Output: 1.0mm<sup>2</sup> or above 2-core cable, Maximum 1000 meters

Alarm Output: 1.0mm<sup>2</sup> or above 2-core cable, Maximum 1000 meters

Fault Output: 1.0mm<sup>2</sup> or above 2-core cable, Maximum 1000 meters

Remote Connections: 1.0mm<sup>2</sup> or above 2-core cable, Maximum 1000 meters

Repeater Connections: 1.0mm<sup>2</sup> or above 2-core cable, Maximum 1000 meters

## Certificates and Compliance

- Standards: EN 54-2 1997 + A1: 2006;  
EN 54-4 1997+A1: 2002+A2:2006
- Certifications: LPCB

## Technical Specification

Primary Supply	220/230VAC $\pm 10\%$ -15%, 50/60Hz
Standby Power	7AH/24VDC
Maximum internal resistance of the batteries	1 $\Omega$
Zone Quantity	2
Device Capacity	32 detectors per zone
End of Line for zone	AEOL (active end of line) or EOLR (0.5Watt/4.7k $\Omega$ )
End of Line for others	EOLR (0.5Watt/4.7k $\Omega$ ) Sonder output, Alarm output
Protection	IP30
Standard	EN54-2 1997 + A1: 2006, EN 54-4 1997+A1: 2002+A2:2006
Approval	LPCB
Operating Environment	0°C ~ +40°C ≤95%, non condensing
Dimensions	430mm(W)x320mm(H)x98mm(D)

## Compatible Devices

GST-RP16 Repeater Panel  
 DC-910xE Series Conventional Detectors  
 C-910x Series Conventional Detectors  
 DC-9204E Conventional Manual Call Point  
 C-940x Series Conventional Sounders and Strobes

## Accessories



Part No.: RB102A  
 Device name: Relay Board  
 Product No.: 20101882



Part No.: P-9907  
 Device name: Active End of Line  
 Product No.: 10102406



Part No.: DP-9907  
 Device name: Active End of Line  
 Product No.: 10103044

## Order Information

Part No.	GST102A
Device Name	Conventional Fire Alarm Control Panel
Product No.	10105776