GST116A
Conventional Fire Alarm Control Panel



548p/06 2831-CPR-F4052 GST-0204-01 11

Description

GST116A 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

- 16 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 programed 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 programed to indicate supervisory condition. Green color on in case superisory signal triggered. 2nd abmer 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 ouput (N/O COM N/C)
- 1 x Fault output (N/O COM N/C)
- 1x Auxilary 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

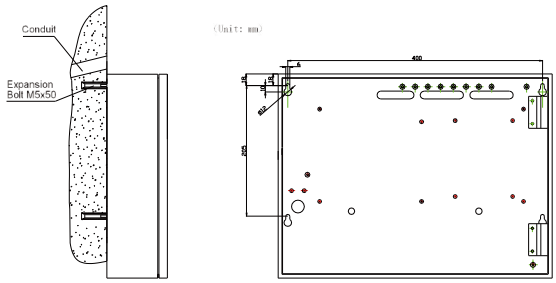
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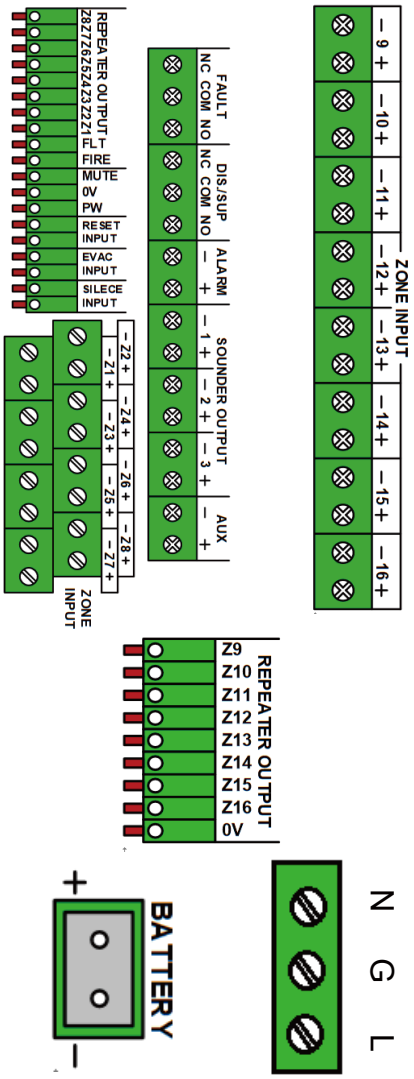
Installation Data

GST116A 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~Z16): Output terminals of repeater panel for zone 1 to 16. (Z9 ~ Z16 on the expansion board)

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 (1~16): Zone 1 to 16 input terminals. (Z9 ~ Z16 on the expansion board)

BATTERY (+, -): Battery terminals

L, G, N: Mains input terminals

Cable Requirement

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

Zone: 1.0mm^2 or above 2-core cable, Maximum 1000 meters

Sounder Output: 1.0mm^2 or above 2-core cable, Maximum 1000 meters

Alarm Output: 1.0mm^2 or above 2-core cable, Maximum 1000 meters

Fault Output: 1.0mm^2 or above 2-core cable, Maximum 1000 meters

Remote Connections: 1.0mm^2 or above 2-core cable, Maximum 1000 meters

Repeater Connections: 1.0mm^2 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

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Technical Specification

Primary Supply	220/230VAC $^{+10\%}_{-15\%}$, 50/60Hz
Standby Power	7AH/24VDC
Maximum internal resistance of the batteries	1 Ω
Zone Quantity	16
Device Capacity	32 detectors per zone
End of Line for zone	AEOL (active end of line) or EOLR (0.5Watt/4.7kΩ)
End of Line for others	EOLR (0.5Watt/4.7kΩ) Sounder 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)
Weight	4.2kg

Compatible Devices

GST-RP16 Repeater Panel

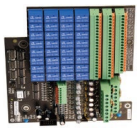
DC-910xE Series Conventional Detectors

C-910x Series Conventional Detectors

DC-9204E Conventional Manual Call Point

C-940x Series Conventional Sounders and Strobes

Accessories



Part No.: RB116A
Device name: Relay Board
Product No.: 20101736



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.	GST116A
Device Name	Conventional Fire Alarm Control Panel
Product No.	10105779

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