GST100
Intelligent Fire Alarm Control Panel

Description

GST100 Intelligent Fire Alarm Control Panel is a mini- panel designed refer to EN54-2. It features simple installation, operation and maintenance, which make it ideal for smaller systems.

Features and Benefits

- Maximum 8 detection zones, each with independent fire LED, fault/disable LED and zone label
- Class A loop, maximum capacity of 128 addressable devices
- 122×32 lattice LCD assisting the LED indicators to display important information
- Non-volatile memory ensuring system data not lost on shutdown of power
- Delayed output effectively reducing false action of ALARM OUTPUT and SOUNDER OUTPUT(R+ and R-) contact
- 3 relay outputs available which are SOUNDER OUTPUT (R+ and R-), ALARM OUTPUT (shared by fire alarm and supervisory output) and FAULT OUTPUT
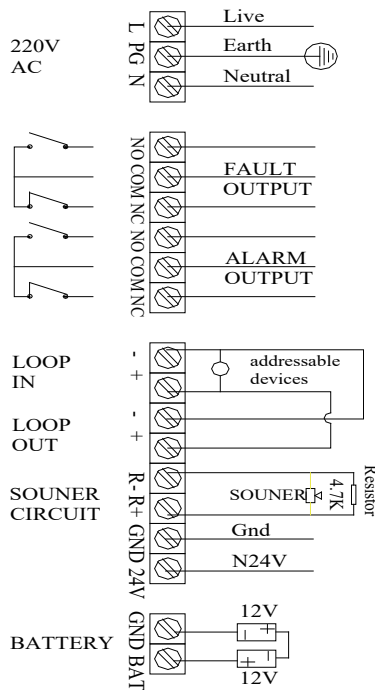- Optional RS485 communication interface for Networking

Installation Data

GST100 is wall-mounted. Its appearance and the mounting hole are shown here.
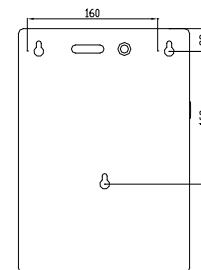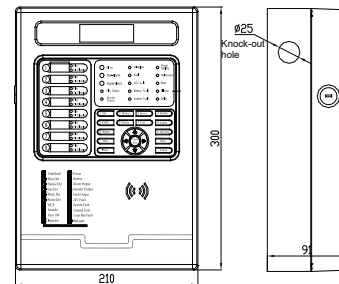
Cable Requirement

1.5mm^2 or above fire cable is recommended for active outputs, 1.0mm^2 or above fire cable is recommended for others. All cables should be subject to local codes.

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روبـروی پالایشگاه نفت پارس، پلاک ۱۲

Terminals

220V AC — L, PG, N: Live, Earth, Neutral

FAULT OUTPUT — NO COM NC

ALARM OUTPUT — NO COM NC / NO COM NC

LOOP IN: -, + addressable devices
LOOP OUT: -, +
SOUNER CIRCUIT: R-, R+, GND, 24V — SOUNER, Resistor 4.7K, Gnd, N24V
BATTERY: GND, BAT — 12V, 12V

L, PG, N: 230VAC mains supply

BAT, GND: 24VDC battery input

LOOP IN, LOOP OUT: Class A loop terminals, able to connect up to 128 addressable devices

R-, R+: SOUNDER OUTPUT terminal with cable monitor. It outputs when a fire alarm comes, which can be stopped by Silence.

+24V, GND: 24VDC auxiliary power output, Max. 500mA.

FAULT OUTPUT: Voltage-free contact output. It will be energized when there is fault in the system.

ALARM OUTPUT: Passive contact output. It will be energized when there is fire or supervisory signal.

EARTH: Terminal for enabling ground fault detection by shorting it with a link.

Technical Specification

Primary AC	230VAC, 50Hz
Operation Current	0.2A
Loop Quantity	One(1)
Zone Quantity	Eight(8)
Device per loop	128
Relay Outputs	Alarm/Fault/Sounder
Display	122 x 32, LCD
Network	RS485 interface
Operating Environment	0℃ ~ +40℃ ≤95%, non condensing
Dimensions	210mm W x 300mm H x 91mm D

Compatible Devices

GST852RP LCD Passive Repeater Panel

GST8903 Mimic Panel

DI-910xE Series Digital Intelligent Detector

I-910x Series Intelligent Analogue Detector

DI-9204E Addressable Manual Call Point

I-930x Series Addressable interfaces

I-940x Series Addressable Sounders and Strobes

C-950x Series Line Isolator

I-960x Series Intelligent Combustible Gas Detectors

Compatible Devices

Part No.: P-9943

Device name: Network Card

Product No.: 20100675

Order Information

Part No.	GST100
Device Name	Intelligent Fire Alarm Control Panel
Product No.	10101190

Compatible Devices

Part No.	Product No.	Property
GST-100	10101981	Portuguese Model
GST-100	10102215	Hungarian Model

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GST101
Conventional Fire Alarm Control Panel

Description

GST101 Conventional Fire Panel is developed using micro-processor. It can detect 1 zone, connecting with maximum 15 conventional detectors. It has 2 output control points. It is able to indicate normal status, fault, alarm and to check cables for short circuit or broken circuit.
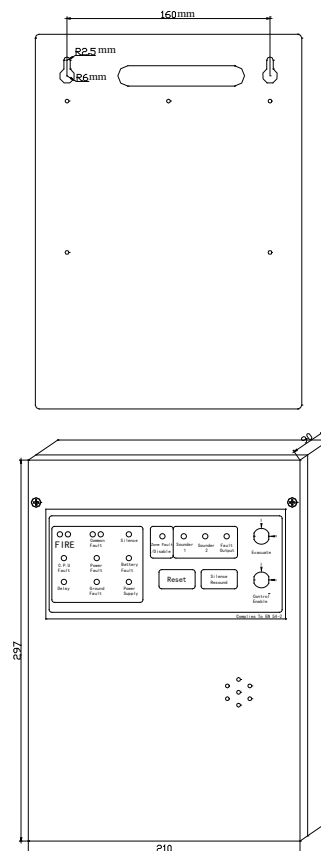
Features and Benefits

- Connecting with conventional detectors and manual call points
- Maximum 15 conventional detectors. Non-limited manual call points
- Sounder outputs and Fault output are available
- Integrated charger and battery management program

Cable Requirement

1.5mm² or above fire cable is recommended for active outputs, 1.0mm² or above fire cable is recommended for others. All cables should be subject to local codes.

Installation Data

GST101 is wall-mounted. Its appearance and the mounting hole are shown here.

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Application

The typical connection of the detector zone is shown below.

1. Connect all manual call points in front of the detectors and a 4.7kΩ resistor at the end of the loop.
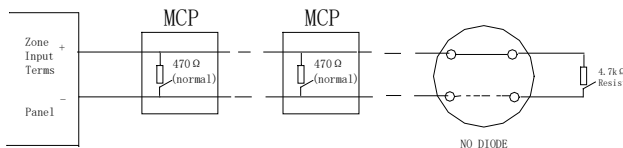

2. Connect the detectors and manual call points at any position and an Active End of Line Unit (AEOL) at the end of the loop. A diode should be connected on the detector base.
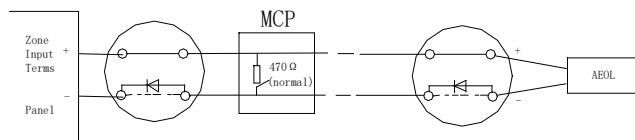
3. Wiring of Output Loop: The sounders and remote devices should be polarity-sensitive and connected into the loop according to the marked polarity. A 4.7kΩ resistor should be paralleled at end of the loop.

Terminals
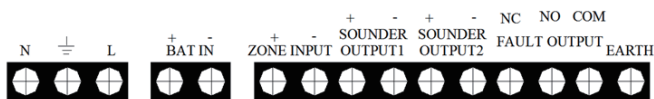
N, L: 220VAC power terminals

BAT IN (+, -): Battery terminals

ZONE INPUT (+, -): Loop terminals.

SOUNDER OUTPUT1 (+, -): Sounder 1 output terminals.

SOUNDER OUTPUT2 (+, -): Sounder 2 output terminals.

FAULT OUTPUT (NC, NO, COM): Fault output terminals.

EARTH: To chassis earth.

Technical Specification

Mains Supply	220VAC/230VAC 50Hz/60Hz
Standby Battery	24VDC, 4AH
Resistance in fire alarm condition	150Ω ~ 1.5kΩ (normally 470Ω)
End of line resistance	4.7kΩ or active end of line unit(AEOL)
Sounder output	Output voltage 20VDC ~ 28VDC Output current 1A End of line resistance 4.7kΩ
Fault output	Volt-free contact output, capacity 1A 24VDC
Operating Temperature	0°C ~ +40°C
Relative Humidity	≤95%, non condensing
Dimension (L×W×H)	210mm×297mm×90mm

Order Information

Part No.	GST101
Device Name	Conventional Fire Alarm Control Panel
Product No.	10100621

Compatible Devices

C-910x Series Conventional Detector

DC-9204E Conventional Manual Call Point

DC-910xE Series Conventional Detector

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GST

GST102A
Conventional Fire
Alarm Control Panel

LPCB
548p/03

CE
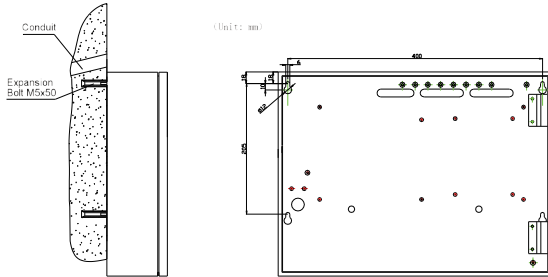2831-CPR-F4050
GST-0204-01
11

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.
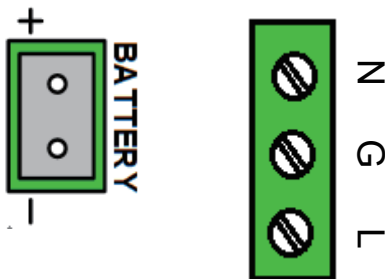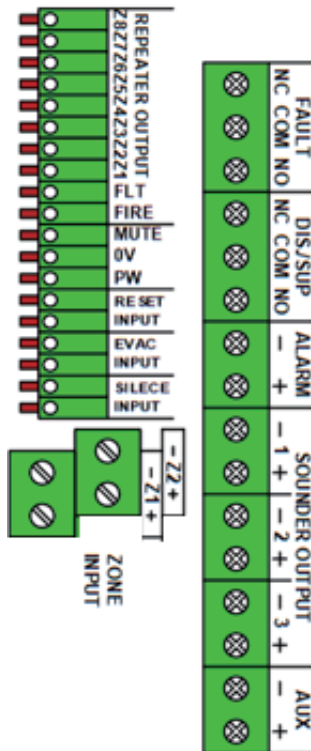
Features and Benefits

• 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 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

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: $1.0mm^2$ 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	2
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)

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

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GST104A
Conventional Fire
Alarm Control Panel

Description

GST104A 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.
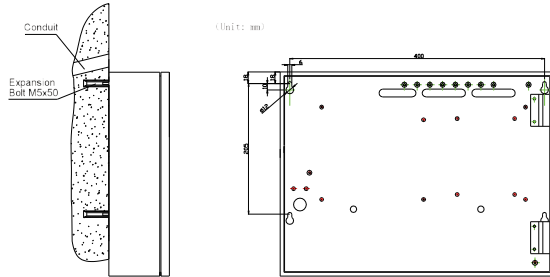
Features and Benefits

- 4 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
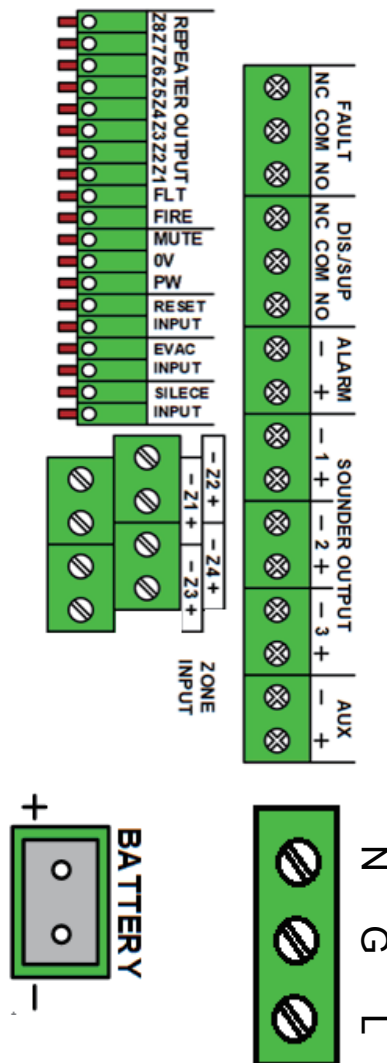
Installation Data

GST104A 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 (1~4): Zone 1 to 4 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^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	4
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)

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.:	RB104A
	Device name:	Relay Board
	Product No.:	20101883
	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.	GST104A
Device Name	Conventional Fire Alarm Control Panel
Product No.	10105777

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GST108A
Conventional Fire
Alarm Control Panel

LPCB 548p/05   CE   2831-CPR-F4049 GST-0204-01 11

Description

GST108A 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.
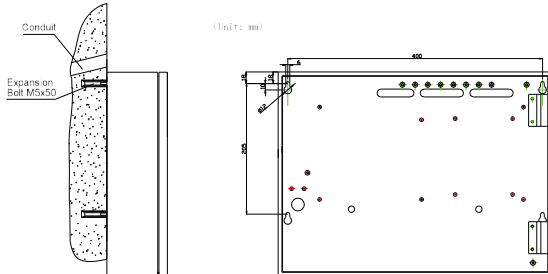
Features and Benefits

- 8 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.
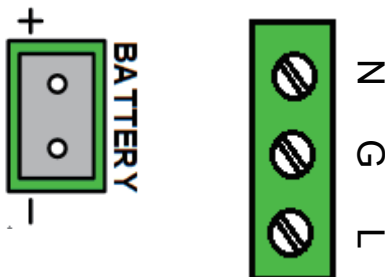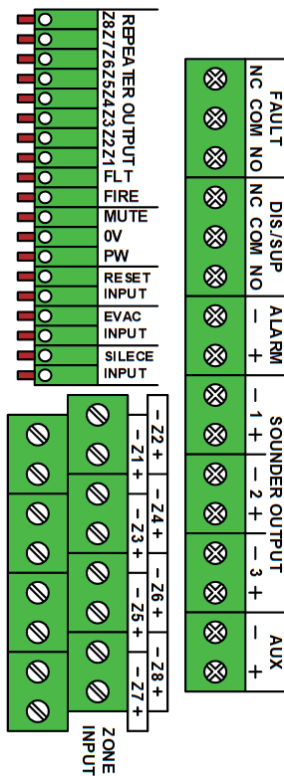- 1x Alarm output can be setup as 24V or N/O,N/C

- 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

GST108A 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 (1~8): Zone 1 to 8 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^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;
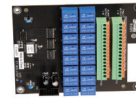 EN 54-4 1997+A1: 2002+A2:2006

- Certifications: LPCB

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تهران ، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲

Technical Specification

Primary Supply	220/230VAC $^{+10\%}_{-15\%}$, 50/60Hz
Standby Power	7AH/24VDC
Maximum internal resistance of the batteries	1 Ω
Zone Quantity	8
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)

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.:	RB108A
	Device name:	Relay Board
	Product No.:	20101741
	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.	GST108A
Device Name	Conventional Fire Alarm Control Panel
Product No.	10105778

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبـروی پالایشگاه نفت پارس، پلاک ۱۲

GST116A
Conventional Fire
Alarm Control Panel

LPCB
548p/06

CE
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

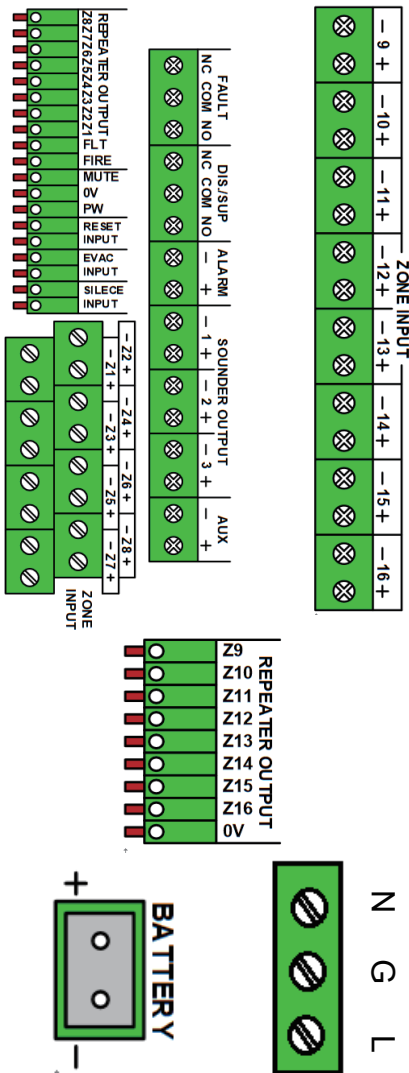• Reserved repeater panel interface for fire alarm indication of multiple zones

Installation Data

GST116A FACP is wall-mount/flush-mount combined.
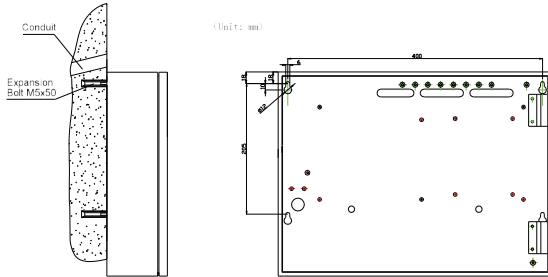
The surface mounting details is shown here.

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: 1.0mm² or above 2-core cable, Maximum 1000 meters

Sounder Output: 1.0mm² or above 2-core cable, Maximum 1000 meters

Alarm Output: 1.0mm² or above 2-core cable, Maximum 1000 meters

Fault Output: 1.0mm² or above 2-core cable, Maximum 1000 meters

Remote Connections: 1.0mm² or above 2-core cable, Maximum 1000 meters

Repeater Connections: 1.0mm² or above 2-core cable, Maximum 1000 meters

Certificates and Compliance

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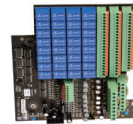 EN 54-4 1997+A1: 2002+A2:2006
- Certifications: LPCB

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تهران ، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲

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)

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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روبـروی پالایشگاه نفت پارس، پلاک ۱۲

GST-IFP8
Intelligent Fire Alarm Control Panel

LPCB
548p/02

CE
2831-CPR-0994
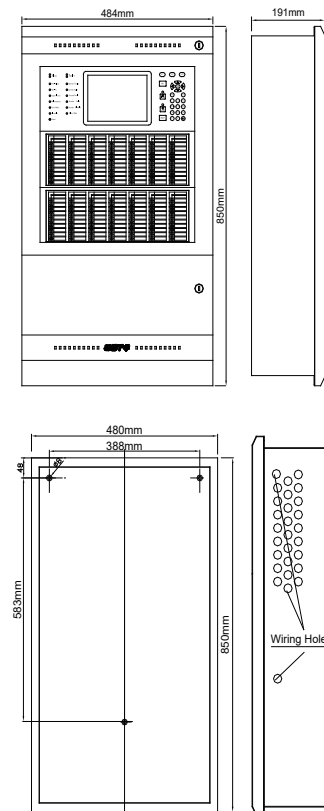GST-0204-01
09

Description

GST-IFP8 Intelligent Fire Alarm Control Panel (FACP) is designed to comply with EN54-2 and EN54-4 standard with qualities of simple installation, operation, and easy maintenance. Modularized structure allows the panel to be expanded to maximum 8 loops, 1936 devices can cover most medium projects.

Features and Benefits

- Max.999 zones, 140 of which has its own alarm and fault/disable LEDs and a label
- Maximum 8 Class A loops, each with up to 242 addressable devices
- 15*40 LCD screen, assisting the 17 LEDs to display important information
- Compatible with full series of GST EN addressable and digital products
- Non-Volatile memory ensures not loss of data even if power supply is accidentally removed
- Sounder strobe output provides 1A/24V load, capable connecting conventional sounders
- RS232 interface enables communication with PC
- RS485 interface enables networking
- RS485 interface for connecting repeaters

Installation Data

GST-IFP8 FACP is wall-mount/flush-mount combined. Its appearance and the mounting holes are shown here.

484mm 191mm 850mm

480mm
388mm
850mm
583mm

Wiring Hole

Terminals

FAULT OUTPUT: NC, COM, NO

REPEATER: A B

FEEDBACK: F1, F2 — 470?, 4.7K

ALARM OUTPUT: -, + — 4.7K

OUTPUT TO SOUNDER: -, + — 4.7K

OUTPUT TO FPE: -, + — 4.7K

For Loop Cards in Slot #4 #5 #6 #7

LOOP 1-8: O-, O+, I-, I+

Addressable Devices

Loop

Network Card in Slot #3

LOOP 10: I-, I+, O-, O+

A2 (CANL2)
B2 (CANH2) — From Previous Panel

Network - Class A

A1 (CANL1)
B1 (CANH1) — To Next Panel
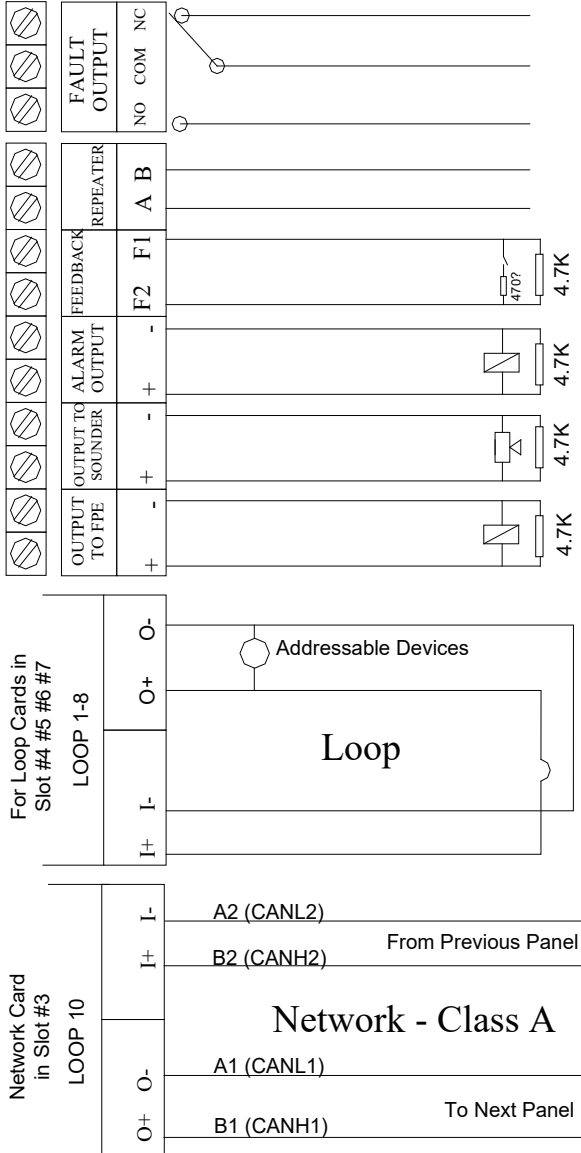
Loop and Network:

Maximum 8 loops for standalone panel, the network card will occupy one slot.

Beware of the polarization for both loop and network connection.

Active outputs:

3 active outputs are provided for general alarm (200mA), sounder circuit (1000mA) and fire protection equipment (200mA), at 24VDC with cable monitoring. A 4k7 EOLR is required.

Repeater output:

Linked with the top slot, RS485 mode

Fault output:

A general fault output is provided with both NO and NC contact. The relay will be engaged when panel is in normal status, and discharged whenever any fault occurs or powered off.

Feed Back:

Designed to collect status of alarm signal transmission

Cable Requirement

Loop: Min. 1.0mm^2, ideally 1.5mm^2, 1500 meters

Network: Min. 1.0mm^2, ideally 1.5mm^2, 1200 meters

Active Outputs: Min. 1.5mm^2, ideally 2.5mm^2

All cables should be fire rated and follow local codes.

Certificates and Compliance

- Standards: EN54-2, EN54-4
- Certifications: LPCB

Technical Specification

Primary Supply	220/230VAC, 50/60Hz
AC Current	1A
Standby Power	38AH/24VDC
Max. Battery Resistance	0.7 Ω
Loop Capacity	2 - 8 Loops
Zone Capacity	999 (140 with individual alarm/fault indicator and label)
Device Loop	242 addresses per loop
Printer	Thermal ASCII code printer
Display	15(lines) x 40(characters), LCD
Network(RS485)	Class A, Max. 32 panels (by card)
Network(CAN)	Class A, Max. 100 panels (by card) Class B, Max. 240 panels (by card and other accessories)
PC Port	RS232/USB interface (by card)
Protection	IP30
Operating Environment	0°C ~ +40°C ≤95%, non-condensing
Dimensions	484mm(W)x850mm(H)x191mm(D)

Order Information

Part No.	GST-IFP8
Device Name	Intelligent Fire Alarm Control Panel
Product No.	10104799

Variant Models

Part No.	Product No.	Property
GST-IFP8-FR	10105167	French Model
GST-IFP8-HU	10104675	Hungarian Model
GST-IFP8-IT	10105166	Italian Model
GST-IFP8-PT	10104673	Portuguese Model
GST-IFP8-SP	10105165	Spanish Model
GST-IFP8-TK	10105168	Turkish Model

Compatible Devices

Networks:
GST200-2 Intelligent Fire Alarm Panel
GST200N Intelligent Fire Alarm Panel
GSTGMC Graphic Monitor Software
GST-NRP00 Network Repeater Panel
GST852RP LCD Passive Repeater Panel
GST8903 Mimic Panel

Loop Devices:
DI-910xE Series Digital Intelligent Detector
I-910x Series Intelligent Analogue Detector
DI-9204E Addressable Manual Call Point
I-930x Series Addressable interfaces
I-940x Series Addressable Sounders and Strobes
C-9503E Line Isolator
DC-9504E Isolator Base
I-960x Series Intelligent Combustible Gas Detectors

Accessories and Tools

Part No.:	LCIFP8
Device name:	Dual Loop Card
Product No.:	20101304

Part No.:	P-9935
Device name:	RS232 Communication Card
Product No.:	20101320

Part No.:	P-9935ModBus
Device name:	ModBus Communication Card
Product No.:	20101832

Part No.:	P-9935TCPIP
Device name:	TCP/IP interface card
Product No.:	20102061

Part No.:	P-9945RP
Device name:	Repeater Card
Product No.:	20101619

Part No.:	P-9945A
Device name:	RS485 Class A Network Card
Product No.:	20101377

Part No.:	P-9965
Device name:	CAN Class B Network Card
Product No. :	20101850

Part No.:	P-9965A
Device name:	CAN Class A Network Card
Product No.:	20102067

Part No.:	P-9904
Device name:	USB Printer Interface
Product No.:	20101639

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