Intelligent **Single & 2 Loop** Fire Alarm Control Panel

GST200-2

548p(cl-5)   0832-CPD-1213
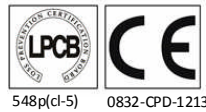
Description

The GST 200-2 single loop and two loop addressable fire detection control panel with upto 242 devices per loop, the system is packed with features that are not usually associated with smaller and medium systems. The GST 200-2 provides a high quality solution at exceptional value.

By utilizing advanced GST Protocol, the system is compatible with the complete range of GST intelligent Detectors, Sounders, Call Points, Interfaces, including gas extinguishing controls. Networkable with all GST intelligent fire control panels the system can be expanded up to a maximum of 240 GST panels (over 48,000 devices)

The GST 200-2 is manufactured and certified to EN54 parts 2 and 4 and to BS5839 Part 4.
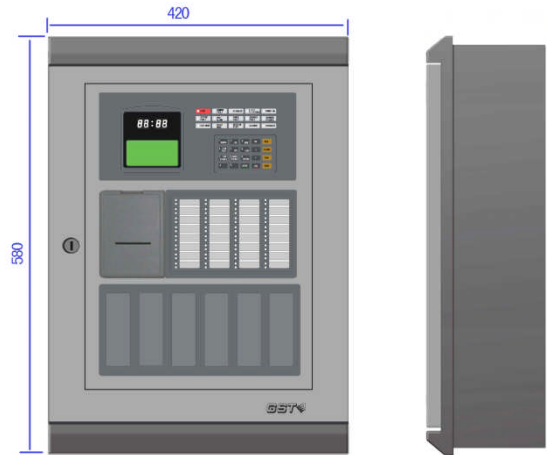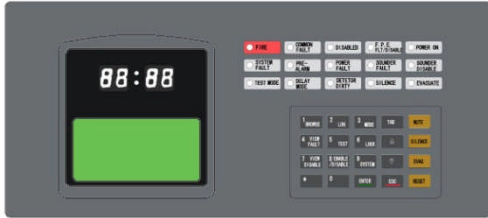By utilizing the GSTDef2.1 programming facilities enables advanced and complex cause and effects to be programmed with ease, including phased and cascade evacuation scenarios. The GST zonal indication and control facility allows the operator to manually intervene, with evacuation and control of each zone, including control of all plant equipment under an alarm condition.

Maintenance report of dirty detector, pre-alarm signal and are built in as standard, making the system ideal for many applications such as banks, shops, telecommunication centers and GSM exchanges, industrial and commercial facilities.
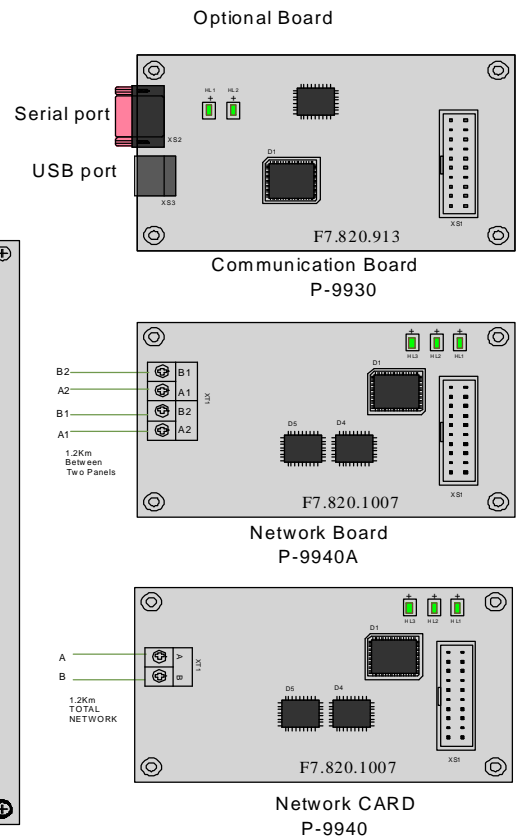
Features and Benefits

- Listed to LPCB standard
- 2 Loop capacity-477 Addressable Point
- 8x18 Graphical LCD Display
- 30 Zone indication including manual intervention and control
- 3 programmable alarm output
- Positive Alarm Signal (PAS) Pre-alarm
- Maintenance report of dirty detector
- Networkable with all GST Intelligent Fire Alarm panels
- Programmable form PC by GSTDef2.1
- History log 999-events capacity in non-volatile memory
- Test Facility-Silent Mode
- Device Start/Stop Mode
- Device Enable/Disable
- RS485 Repeater Output (Max. 10)
- Advanced user friendly programming software including 'Fuzzy Logic'
- Optional RS 232 Colour Graphics Software, Printer and Pager Interface
- Optional RS485 Network Card
- Optional Panel Printer

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D A T A S H E E T
Note: Specifications are subject to change without notice.

Fascia and Dimentions

420

580

Board Diargam

F7.820.1125

Loop Out (Out to First Device)
LOOP 2
Loop In (In From Last Device)

Monitored

XT1
XT3

+ HL2
XS2

XT2 +24V GND

+ HL1   + HL3

Loop 2 Board
LC200

Optional Board

HL1 HL2

Serial port
XS2

USB port
XS3

D1

F7.820.913
XS1

Communication Board
P-9930

F7.820.828V1

Output to Repeater or Mimic Panel
Monitored

A
B

RS 485
XT12
XT11

Loop Out (Out to First Device)
LOOP 1
Loop In (In From Last Device)

LOOP BUS
XT4
XT2

Monitored

Non Monitored

OR

Monitored
Standby Voltage 9 to 11VDC

FIRE ALARM OUTPUT
XT5

F.E.P OUTPUT
XT6

SOUNDER CIRCUIT OUTPUT
XT7

Output Setting refers to Table List on the Manual

RS 485
XT10
XT9

DET BUS
XT8

GND 24V D2 D1 Z- Z+ B A B A

X4
X5

XT8
XT3

Non Monitored

NC COM NO NC COM NO

Terminal/Output Board

F1
X5
X6
F2   X1   HL2

X7   X2   HL3
F3

X3   HL4

X8   EAR TH

Network Board

B2
A2
B1
A1

B1
A1
B2
A2

LIX

1.2Km
Between
Two Panels

HL3 HL2 HL1

D1

D5 D4

F7.820.1007
XS1

Network Board
P-9940A

Network CARD

A
B

XT1
A
B

1.2Km
TOTAL
NETWORK

HL3 HL2 HL1

D1

D5 D4

F7.820.1007
XS1

Network CARD
P-9940

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Technical Specifications

• **Standard**	EN54 Part 2/4 ; BS5839 Part 4
• **Approvals**	LPCB, CPD
• **Main Input Voltage**	220/230 ± 10% VAC 50/60 Hz
• **Input Current Rating**	0.500A, Fuse: 2A delay
• **Operating Temperature**	0°C- 40°C /95% relative humidity
• **Protection**	IP 30
• **Application**	Indoor installation
• **Programming**	Laptop using GST Defining Software/P-9930
• **Zone Capacity**	30 Zones programmable
• **Loop Parameter**	1 loop expandable to 2 with LC200 card
Loop Capacity	477; Loop 1:235; loop 2:242(Address)
Loop Topology	Class A or B
Loop Voltage	24 VDC Nominal (21-27 VDC)
Loop Current	0-300mA
Loop Length/Cable	1.00mm²-800m-Full Load
	1.5mm²-1000 m-Full Load

Output Circuits

Fire Alarm Output: Monitored (4.7Kohm)
Voltage: Standby: -9to-11VDC; Alarm: 21 to 27Vdc
Current: 500mA
Relay Contact: NO/NC Jumper Setting; rating: 24V/1A

F.P.E. Output: Monitored (4.7Kohm)
Voltage: Standby: -9to-11VDC; Alarm: 21 to 27VdcCurrent: 500mA
Relay Contact: NO/NC Jumper Setting; rating: 24V/1A

Sounder Circuit Output: Monitored (4.7Kohm)
Voltage: Standby: -9to-11VDC; Alarm: 21 to 27Vdc
Current: 500mA
Relay Contact: NO/NC Jumper Setting; rating: 24V/1A
(Output circuit cable length: 1.00mm²- 1000m)

Fault Output: Non-monitored
Relay Contact: NO/COM/NC; rating: 24V/1A

• **Fuses**

Mains 2A (20mm A/S ceramic)
Sounders (2): 1A (20mm A/S)
Fire alarm Output 0.5A (20mm A/S)
Battery: 2A (20mm A/S HRC ceramic)

• **Standby Batteries**

Twin 12 VDC Bat; 21AH as per load calculated
Maximum Charge Current: 1.2
Maximum Charge Voltage: 27.6
Type: Sealed lead acid batteries
Recommended model: Power-Sonic PG12V21
Maximum Internal Resistance: 1Ω
Quiescent Current under Full-loaded Condition: 0.75A
Maximum Battery Operating Current: 2.82A

• **RS485 Port**

Repeater Output: Up to 10 Repeater or Mimic panel
Cable length: 1.5mm²- 1000m
Optional Network card (P-9940A): Normal 32 panels (GST200/2); 64 with IFP8
Cable Length: 1.5mm²- 1200m between panels
Topology: Class A

• **CANBUS**

Optional CANBUS Communication card (P-9960)
Network Capacity 240 panels (CANBUS HUB Required)
Cable Length: 3Km
Topology: STAR Connection

• **RS232 Port (Serial/USB)**

Optional Communication card (P-9930)
Cable Length: 15m (cable/flat ribbon Supplied)

• **Panel Printer**

Optional Printer (P-9901A)
Type: Thermal/ASCII Code/96 Characters
(Flat ribbon cable supplied) Voltage: 5Vdc

• **Dimension (HLW)**

Outer: 580 x 420 x 30 mm
Inner: 550 x 393 x 173 mm

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Selection of GST200-2 compatible Panels & Devices

- ✓ GST-IFP8 8Loops Intelligent Fire Alarm Controller
- ✓ GST5000 Series Intelligent Fire Alarm Controller
- ✓ GST200 Fire Alarm Panel
- ✓ GSTGMC Graphic Monitor Software
- ✓ GST-NRP01 Network Repeater Panel
- ✓ GST852RP LCD Passive Repeater Panel
- ✓ GST8903 Mimic Panel
- ✓ DI-910N Digital Intelligent Detector Series
- ✓ I-910N Intelligent Analogue Detector Series
- ✓ DI-9204 Addressable Manual Call Point Series
- ✓ I-930Xddressable Series interfaces (Complete range for all requirements)
- ✓ I-940X Addressable Series Sounders and strobes
- ✓ I-950X Line Isolator Series
- ✓ I-960X Intelligent Series Combustible gas detectors

Ordering Information

Part Number: GST200-2/1
Description: Intelligent Single Loop Fire Alarm Panel
Pack Qty. per Box: 1

Part Number: GST200-2/2
Description: Intelligent Two Loop Fire Alarm Panel
Pack Qty. per Box: 1

Accessories

Part Number: P-9901A
**Description:** Panel Printer
Pack Qty. per Box: 1

Part Number: P-9930
Description: Compatible with USB and Serial Port. RS232 Communication Board for system Commissioning and GMC Connection
Pack Qty. per Box: 1

Part Number: P-9930-TCP / IP
Description: TCP/IP – RS232 Communication Board for Communication to NPORT
Pack Qty. per Box: 1

Part Number: P-9930-MB
Description: MODBUS Protocol RS232 Communication Board
Pack Qty. per Box: 1
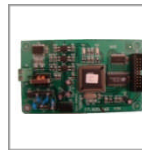
Part Number: P-9940
Description: RS 485 Network Board, Serial Connection (Class B) 1.2Km range
Pack Qty. per Box: 1

Part Number: P-9940A
Description: RS 485 Network Board, Serial Connection (Class A) 1.2Km between panels
Pack Qty. per Box: 1

MANUFACTURED IN ACCORDANCE WITH

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