GST

Global System Technology(UK) PLC
The Intelligent Solution

GST-500 Intelligent Two Loop Fire Alarm Panel

GLOBAL SYSTEM TECHNOLOGY PLC
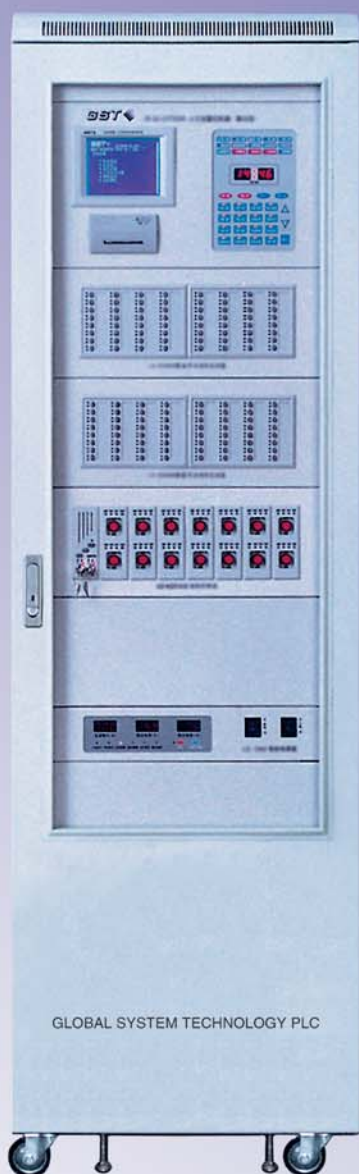
MANUFACTURED IN ACCORDANCE WITH

LOSS PREVENTION CERTIFICATION BOARD
LPCB
ISO9001 Ref NO.548

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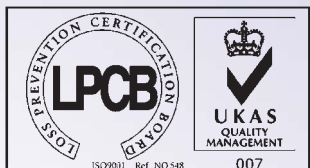
GST Automatic Fire Alarm
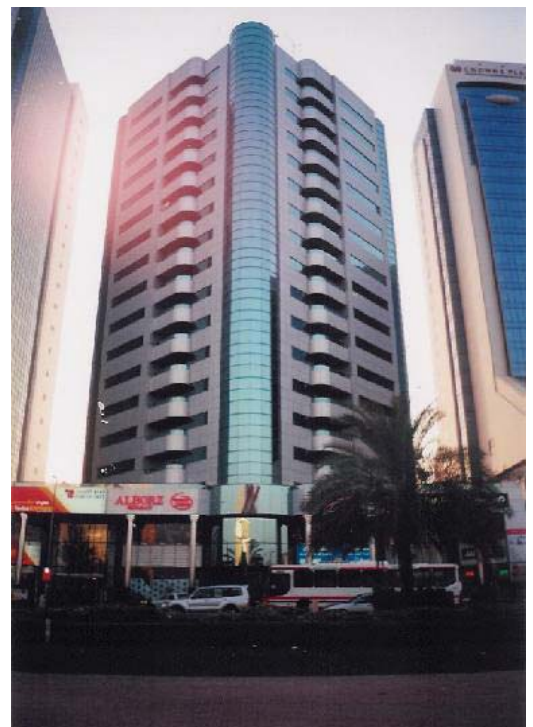# & Integrated Control Systems

Loss Prevention Certification Board

LPCB

APPENDIX TO CERTIFICATE OF PRODUCT CONFORMITY NO. 548b

GULF SECURITY TECHNOLOGIES CO., LTD
(Manufacturing Division of Global System Technology PLC)

Certificated Products	LPCB Ref. No.
JTWB-ZCD-G1 Conventional rate of rise and fixed temperature Grade 3 heat detector (DZ-03 base)	548b/01
JTW-ZCD-G3N Analogue addressable 'intelligent' rate of rise and fixed temperature Grade 3 heat detector (DZ-03 base)	548b/02

Bases

DZ-03 base

ALTERNATIVE MODEL NUMBERS AND LABELLING

LPCB Ref No.	Model No.	Alternative Model Number	Labelled
548b/01	JTWB-ZCD-G1	C-9103	Global System Technology PLC.
548b/02	JTW-ZCD-G3N	I-9103	Global System Technology PLC.

Signed on behalf of the LPCB

Appendix Issue No. 1
Page 1 of 1

E MATTIE-SULEIMAN

Issued 19 June 2002
Valid Until 31 December 2003

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Loss Prevention Certification Board

LPCB

APPENDIX TO CERTIFICATE OF PRODUCT CONFORMITY NO. 548a

GULF SECURITY TECHNOLOGIES LTD

Certificated Products	LPCB Ref. No.
JTY-GF-GST104 Conventional optical smoke detector (DZ-03 Base)	548a/01
JTY-GD-G3 Analogue addressable 'Intelligent' optical smoke detector (DZ-03 Base)	548a/02

Bases

DZ-03 Standard base

ALTERNATIVE MODEL NUMBERS AND LABELLING

LPCB Ref No.	Model No.	Alternative Model Number	Labelled
548a/01	JTY-GF-GST104	C-9102	Global System Technology PLC.
548a/02	JTY-GD-G3	I-9102	Global System Technology PLC.

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Appendix Issue No. 1
Page 1 of 1

E MATTIE-SULEIMAN

Issued 26 September 2002
Valid Until 2 January 2005

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LPCB

CERTIFICATE OF QUALITY SYSTEM REGISTRATION

This is to certify

GULF SECURITY TECHNOLOGIES CO., LTD
(Manufacturing Division of Global System Technology PLC)

has complied with the requirements identified in

ISO 9001: 1994

and is authorised to use the LPCB mark on stationery and
publications related to the following products and/or services

**Design and manufacture of fire detection
and alarm systems and components**

Certificate No. 548 Issue 2

Issued 24 June 2002

Valid Until 31 December 2003

Signed on behalf of the LPCB

E MATTIE-SULEIMAN

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Intelligent Photoelectric Smoke Detector

- Aesthetically pleasing Low profile design
- 8 Bit intelligent processor with A/D converter
- Built in algorithm maps for false alarm rejection.
- Electronically addressed
- Sensitivity adjustable via hand held programming tool.
- Removable Optical chamber for easy cleaning and maintenance.
- Conventional detector version also available (C-9102)

Technical Specifications
- Operating voltage: Loop 24V
- Operating current
    Standby current: ≤ 600µA
    Alarm current ≤ 2mA
- Operating environment:
    Temperature :- 10ºC ~+ 50ºC
    Relative humidity: ≤95%
- Dimension: Diameter: 10cm Height: 5cm

Intelligent Dual Heat Detector

- Fixed Temperature and Rate of Rise Detection
- Aesthetically pleasing Low profile design
- 8 Bit intelligent processor with A/D converter
- Electronically addressed
- Fixed Temperature response is adjustable via hand held programming tool between 58ºC and 74ºC
- Conventional detector version also available (C-9103)

Technical Specifications
- Operating voltage: Loop 24V
- Operating current:
    Standby current: ≤ 800µA
    Alarm current ≤ 1.4mA
- Operating environment:
    Temperature:- 10ºC ~+ 50ºC
    Relative humidity: ≤95%
- Dimension: Diameter: 10cm Height: 5cm

Intelligent Ultraviolet Flame Detector

- Sensitive Ultraviolet sensor that detects the UV rays produced by a flame
- Not effected by sunlight.
- Aesthetically pleasing Low profile design
- Dust / corrosion / Humidity resistant.
- Electronically addressed
- Conventional detector version also available (C-9104)

Technical Specifications
- Operating voltage: Loop 24V
- Operating current:
    Standby current: ≤ 1.5mA
    Alarm current ≤ 10mA
- Operating environment:
    Temperature:- 10ºC ~+ 50ºC
    Relative humidity: ≤95%
- Detection Angle:≤80 Degree
- Dimension: Diameter: 10cm Height: 5cm

Combined Optical / Heat Detector

- Combining all the features of the I-9102 Optical and the I-9103 Dual heat detector to provide the ultimate cover for life safety systems
- Conventional detector version also available (C-9101)

Technical Specifications
- Operating voltage: Loop 24V
- Operating current:
    Standby current: ≤ 800µA
    Alarm current ≤ 2mA
- Operating environment:
    Temperature:- 10ºC ~+ 50ºC
   Relative humidity: ≤95%
- Dimension: Diameter: 10cm Height: 5cm

Intelligent Linear Beam Detector

- Suitable for detection coverage of atriums and warehouses, factories, tunnels
- Range 10-100 metres
- Alignment indication LEDs and adjustable pivot base for easy beam alignment
- Reduced installation costs due to intelligent addressable control (no requirement for local control interfacing and reset)
- 8 Bit intelligent processor with algorithm maps for false alarm rejection
- Electronically addressed
- Conventional detector version also available (C-9105)

Technical Specifications
- Operating voltage: Loop 24V
- Operating current:
    Standby current:≤1mA
    Alarm current: 2.5mA
- Detection Range: Length from 10 to 100 meters, width 15 meters.
- Wiring: Non-polarized two-core 24VDC for emitter
    Non-polarized two-core loop for receiver
- Operating environment:
    Temperature: -10°C~+ 50°C
    Relative humidity: ≤92%
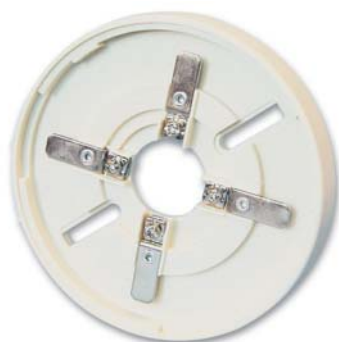
Standard Detector Base

- Non polarised terminals and multi-positioning design allows easy direction adjustment of the detector
- Compatible with GST conventional detectors
- Diode base version (DZ-03D) for conventional detectors with Active End Of Line(P-9907)

Intelligent Manual Call Point

- Addressable Manual Call Point (MCP) with re-settable (non breaking) Glass
- Additional volt free contacts for local interfacing (i.e. PTZ camera preset)
- Two part plug-in construction with base mounted termination allows easy installation and connection
- Intelligent MCP can be addressed and plugged in to base at time of commissioning
- Electronically addressed
- Suitable for Semi-Flush and surface mount installation
- Conventional MCP version also available (C-9201)

Technical Specifications

- Operating Voltage: Loop 24V
- Operating Current:

  Monitoring Current: ≤0.8mA

  Alarming Current: ≤2mA
- N/O Output Contact: Rating Value 60VDC, 0.1A

  Contact Resistance ≤100mΩ
- Operating Environment:

  Temperature: -10°C~+ 50°C

  Relative Humidity: ≤95%
- Dimension: 90mmX122mmX48.5mm

Handheld Programmer

- Portable programming tool for addressing and testing of intelligent devices
- Programs all loop devices (1-242 addresses per loop)
- Interrogates device for Condition - Manufacturing Batch Number - Date of manufacture - alarm sensitivity
- Reprogram facility enables adjustment to alarm threshold of detectors.

Short Circuit Isolator
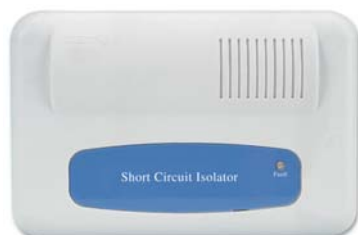
- Isolates faulty part of the loop in the event of a short circuit
- Automatically resetting once the fault has cleared
- LED status Indicator
- Also available as Isolator base version that directly replaces the standard detector base (C-9502)
- Also Compatible with Conventional detection Circuits

Technical Specifications

- Operating Voltage: Loop 24V

  Action Current: ≤170mA
- Operating Environment:

  Temperature: -10°C~+ 50°C

  Relative Humidity: ≤95%
- Dimension: 120mmX80mmX40mm

Intelligent Combustible Gas Detector

- Available for LPG, Natural gas and Coal Gas.
- Built-in relay contacts for control of gas valves / Extract etc (I-9602)
- Built-in buzzer for local alarm
- Manual reset and control (on/off) of relay contacts
- Electronically addressed
- Conventional detector version also available (C-9601)&(C-9602)

Technical Specifications

- Operating voltage: Loop 24V
- Operating Consumption:≤1.5Watt
- Alarm Level: Pre-alarm 12%LEL
  Urgent Alarm: 23%LEL
- Output:　　K1/K2, N/O contact, 3A/220VAC, active when pre-alarm
  　　　　　　V1/V2, active output. 3A/5VDC, start when full alarm
- Wiring:
  Non-polarised two-core for loop
  Non-polarised two-core for 24VDC power supply
- Operating environment:
  Temperature:- 10ºC ~+ 50ºC
  Relative Humidity: ≤95%

Intelligent Input Module

- Monitors switch contacts of remote equipment
- Two part plug-in construction with base mounted termination allows easy installation and connection
- Intelligent interface can be addressed and plugged in to base at time of commissioning
- Electronically addressed
- For surface mount cable installations use surface mount interface back box (SMIBB-1)

Technical Specifications

- Operating Voltage: Loop 24V
- Operating Current:
  Standby Current ≤1mA
  Action Current: ≤5mA
- Operating Environment:
  Temperature: -10°C~+ 50°C
  Relative Humidity: ≤95%
- Dimension: 120mmX80mmX40mm

Interposing Relay Module

- A/C relay interface, used in conjunction with intelligent I/O module to interface with 220 volt equipment
- Two part plug-in construction with base mounted termination allows easy installation and connection
- Interface can be plugged in to base at time of commissioning
- For surface mount cable installations use surface mount interface back box (SMIBB-1)
- Can be used with conventional alarm circuits

Intelligent Single Input /Output Module

- Addressable I/O with 24V /3Amp relay contacts
- Confirmation input to confirm to fire alarm panel the equipment controlled by the interface and responded when activated
- Two part plug-in construction with base mounted termination allows easy installation and connection
- Intelligent interface can be addressed and plugged in to base at time of commissioning
- Electronically addressed
- For surface mount cable installations use surface mount interface back box (SMIBB-1)

Technical Specifications

- Operating Voltage: Loop 24V
- Operating Current:

    Standby Current ≤1mA

    Action Current: ≤5mA
- Wiring:

    Non-polarised two-core for loop

    Non-polarised two-core for 24VDC power supply
- Operating Environment:

    Temperature: -10°C~+ 50°C

    Relative Humidity: ≤95%
- Dimension: 120mmX80mmX40mm

Intelligent Security Interface

- Integrates standard security devices into the alarm network
- 24 to 12volt (DC) step-down for powering of security devices
- Two part plug-in construction with base mounted termination allows easy installation and connection
- Intelligent interface can be addressed and plugged in to base at time of commissioning
- Electronically addressed
- For surface mount cable installations use surface mount interface back box

Intelligent Remote Indicator

- Intelligent Addressable Remote indicator
- Can be program linked to any single or group of devices
- High Intensity flashing LED in alarm condition
- Electronically addressed
- Conventional version also available (C-9314)

Intelligent Zone Monitor Unit

- Interfaces with conventional fire detection equipment
- Can connect up to 15 detectors
- Can connect to Sprinkler Zone Valve and Flow Switch
- Can interface Conventional Fire Devices onto an Addressable Loop
- Electronically addressed

Technical Specifications

- Operating Voltage: Loop 24V
- Operating Current:

  Monitoring Current ≤0.5mA

  Action Current: ≤5mA
- Capability: 15 conventional detectors
- End of line: 4.7kΩ resistor or AEOL
- Action Resistor: 470~680Ω
- Operating Environment:

  Temperature: -10°C~+ 50°C

  Relative Humidity: ≤95%
- Dimension: 120mmX80mmX40mm

Intelligent Sounder Driver

- The Driver for non-addressable sounders/bells
- Two addresses for Alert and Evacuate Control
- Two part plug-in construction with base mounted termination allows easy installation and connection
- Intelligent interface can be addressed and plugged in to base at time of commissioning
- Electronically Addressed

Technical Specifications

- Operating Voltage: Loop 24V
- Operating Current:

  Standby Current ≤1mA
- Output: Maximum 1A, polarized
- End of line: 10kΩ resistor
- Operating Environment:

  Temperature: -10°C~+ 50°C

  Relative Humidity: ≤95%
- Dimension: 120mmX80mmX40mm

Intelligent Sounder Beacon

- Addressable combined flashing beacon and sounder
- Two part plug-in construction with base mounted termination allows easy installation and connection
- Intelligent interface can be addressed and plugged in to base at time of commissioning
- Electronically addressed
- Conventional version also available (C-9401)

Technical Specifications

- Operating Voltage: Loop 24V
- Operating Current:

  24VDC: Standby Current: ≤10mA; Alarming Current: ≤160mA;

  Loop: Standby Current: ≤0.8mA; Alarming Current: ≤6.0mA;
- Alarm volume (SPL): ≥95dB @1 Meter.
- Wiring:

  Non-polarised two-core for loop

  Non-polarised two-core for 24VDC power supply
- Operating Environment:

  Temperature: -10°C~+ 50°C

  Relative Humidity: ≤95%
- Dimension: 144mmX90mmX57mm

Sounder Base

- Base Mounted Sounder.
- Can be used as a common base of detector or stand alone with a cover.
- No need of extra power supply.
- Two addresses for Alert and Evacuate Control.
- Conventional Version also available (C-9402)

Technical Specifications

- Operating Voltage: Loop 24V
- Operating Current:

  Standby Current ≤1mA

  Action Current: ≤15mA
- Alarm volume (SPL): ≥85dB @1 Meter.
- Operating Environment:

  Temperature: -10°C~+ 50°C

  Relative Humidity: ≤95%
- Dimension: Diameter: 10cm Height: 3.5cm (without cover), 4.5cm (with cover)

Intelligent Single Loop Fire Alarm Panel

- Single Loop addressable fire detection panel packed with features not usually associated with smaller systems, providing a high quality solution at exceptional good value.

- Loop capacity 235 intelligent devices.

- Graphical LCD Display.

- 30 Zone indication and manual intervention panel

- Networkable with all GST Fire panels

- Programmable from PC.

- Built-in gas extinguishing control.

- Integrated Security alarm facilities

- Optional Colour Graphics

- Optional Fireman's Control panel

- Optional Panel Printer

- Advanced user friendly programming software including 'Fuzzy Logic'

Technical Specifications

- Power supply:AC220V 50/60Hz

- Operating Environment:

  Temperature: -10°C~+ 40°C

  Relative Humidity: ≤95%

- Dimension: 400mmX560mmX178mm

Intelligent Two Loop Fire Alarm Panel (Expandable to 4 Loops)

- Two Loop addressable fire detection with integrated controls providing the perfect solution for all medium sized projects
- Loop capacity 242 intelligent devices. (Total 484 addressable points)
- Large Graphical LCD Display.
- 30 Zone indication and manual intervention panel
- Networkable with all GST Fire panels
- Programmable form PC or via on board keypad.
- Built-in gas extinguishing control.
- Integrated Security alarm facilities
- Optional Fireman's Control panel
- Panel Printer
- Optional Colour graphics
- Advanced user friendly programming software including 'Fuzzy Logic'.
- 4-Loop Version Available (Maximum 700 devices on Loop)

Technical Specifications

- Power supply:AC220V 50/60Hz
- Operating Environment:

  Temperature: -10°C~+ 40°C

  Relative Humidity: ≤95%
- Dimension: 500mmX700mmX170mm

Graphical User Interface

- Colour graphic control and display system, providing a complete window on to the fire detection system and network along with additional integrated and ancillary equipment i.e. Fire telephone and voice alarm.
- Compatible with all GST Intelligent fire panels
- Multi-level password control for convenient system management

Intelligent Modular 1-20 Loop Fire Alarm System

- The larger brother to the GST 500, this fire command system, with modular loop cards expandable to 20 loops and integrated controls enables full integration with GST Voice alarm and fire telephone systems. Housed in either rack or console type housings provides the perfect solution for all medium to large systems

- Loop capacity 242 intelligent devices (up to 4840 addressable points)

- Large Graphical LCD Display.

- Zone indication and manual intervention control

- Networkable with all GST Fire panels

- Programmable form PC or via on board keypad.

- Built-in gas extinguishing control.

- Integrated Security alarm facilities

- Optional Fireman's Control panel

- Panel Printer

- Optional Colour graphics

- Advanced user friendly programming software including 'Fuzzy Logic'

- Total integration with GST addressable Voice alarm systems.

- Total integration with GST addressable Fire Telephone systems.

Technical Specifications

- Power supply:AC220V 50/60Hz

- Operating Environment:

   Temperature: -10°C~+ 40°C

   Relative Humidity: ≤95%

- Dimension: 580mmX520mmX18730mm

Intelligent 128 Loop Fire Alarm System

- The Flag ship in the GST range of Fire command centres, With its large touch screen colour graphic LCD control panel expandable up to 128 loops, and full integration with the GST range of intelligent Voice alarm and Fire telephone solutions systems. Networkable control via the LON works network, enabling total integration with the GST building management systems providing a seamless complete control system for the most demanding of projects
- Loop capacity 242 intelligent devices. (up to 30,000 addressable points)
- Large Touch Screen Colour Graphic LCD Display
- Zone indication and manual intervention control
- Lon Works Network facilities
- Built-in gas extinguishing control
- Integrated Security alarm facilities
- Colour graphics
- Advanced user friendly programming software including 'Fuzzy Logic'
- Total integration with GST addressable Voice alarm systems.
- Total integration with GST addressable Fire Telephone systems.
- Integrated with GST Intelligent Building Management system
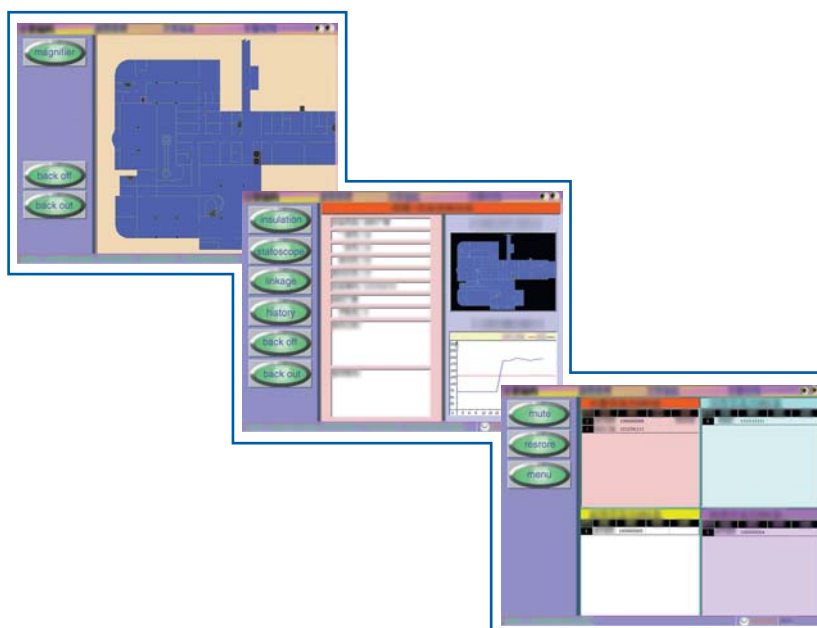
Intelligent Modular 1-40 Loop Fire Alarm System

GST6000

- With onboard Color Graphic
- Optional Touch Screen Control

LCD Repeater Panel

GST852RP

- Aesthetically pleasing design with large LCD display
- Compatible with all GST intelligent fire alarm controllers
- Two part plug-in construction with base mounted termination allows easy installation and connection
- Repeater can be plugged in to base at time of commissioning

Fireman's Control Panel

GST14FCP

- Integrated Firemans' control panels
- Automatic and manual control
- CPU control
- Hinged switch covers to stop accidental operation
- Compatible with all fire control panels

Conventional Fire Alarm Panels

- 2/4/8 zone conventional fire alarm panels.

- Both End of Line Resister and Active End of Line can be used.

- Day/night mode selected

- Key-control evacuate

- Repeater is available for GST108

- Fire alarm output for remote alarm

- Class Change terminal for remote control

Technical Specifications

- Power supply:AC220V 50/60Hz

- Operating Environment:

  Temperature: -10°C~+ 40°C

  Relative Humidity: ≤95%

- Dimension: 380mmx320mmx95mm

- 15 fire detectors and infinite manual buttons each zone

Active End Of Line

- Active End Of Line for conventional fire detection loop.

- It can be used as conventional detector base or work independent with a
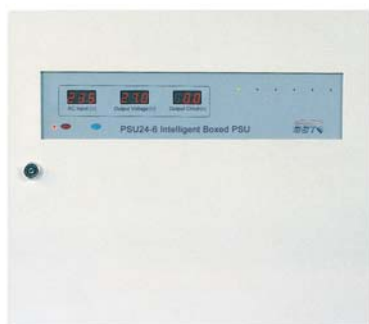
  cover

Power Supply Unit

- 3amp 24 volt DC Intelligent PSU
- Display shows AC input Voltage, DC output Voltage
- Fully monitored with self test facilities
- Addressable intelligence enabling full monitoring and reporting to Fire Control panel(PSU24-3A)
- Requires 2x 12volt battery for standby power

Technical Specifications

- Power supply:AC220V 50/60Hz
- Operating Environment:
  Temperature: -10°C~+ 40°C
  Relative Humidity: ≤95%
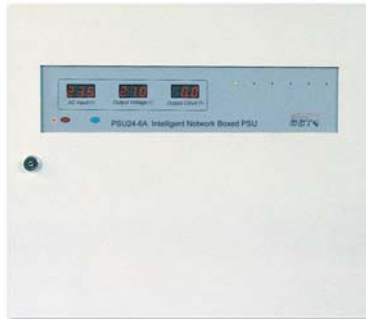- Dimension: 310mmX400mmX115mm

Intelligent Boxed PSU

- 6amp 24 volt DC Intelligent PSU
- Display shows AC input Voltage, DC output Voltage,DC Load (amps)
- Fully monitored with self test facilities
- Only requires 2x12volt battery for standby power

Technical Specifications

- Power supply:AC220V 50/60Hz
- Operating Environment:
  Temperature: -10°C~+ 40°C
  Relative Humidity: ≤95%
- Dimension: 500mmX440mmX170mm

Intelligent Network Boxed PSU

- All the Facilities of PSU24-6 with the added facility of addressable control enabling full monitoring and reporting
- Addressable control enables remote reset facilties (enabling non-intelligent ancillary DC powered equipment that requires the removal of power to be reset)

Technical Specifications

- Power supply:AC220V 50/60Hz
- Operating Environment:
  Temperature: -10°C~+ 40°C
  Relative Humidity: ≤95%

Intelligent Power Panel PSU

- 19" Rack Mountable 2u PSU
- 6amp 24volt DC Intelligent PSU
- Display shows AC input voltage, DC output voltage, DC Load (amps)
- Fully monitored with self test facilities
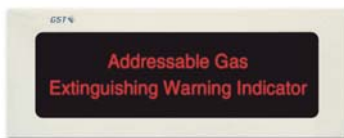- Only requires 2x12volt battery for standby power

Extinguishing Cylinder Control Panel

- Capable of controlling upto 6 zone of extinguishing
- Direct Intelligent control Via addressable Loop
- Auto and manual control Facilities
- Fully monitored status control

GST302/304/306

Addressable Gas Extinguishing Warning Indicator

- Normally located above the entrance to the gas extinguishing protected area
- Eliminate prior to gas release
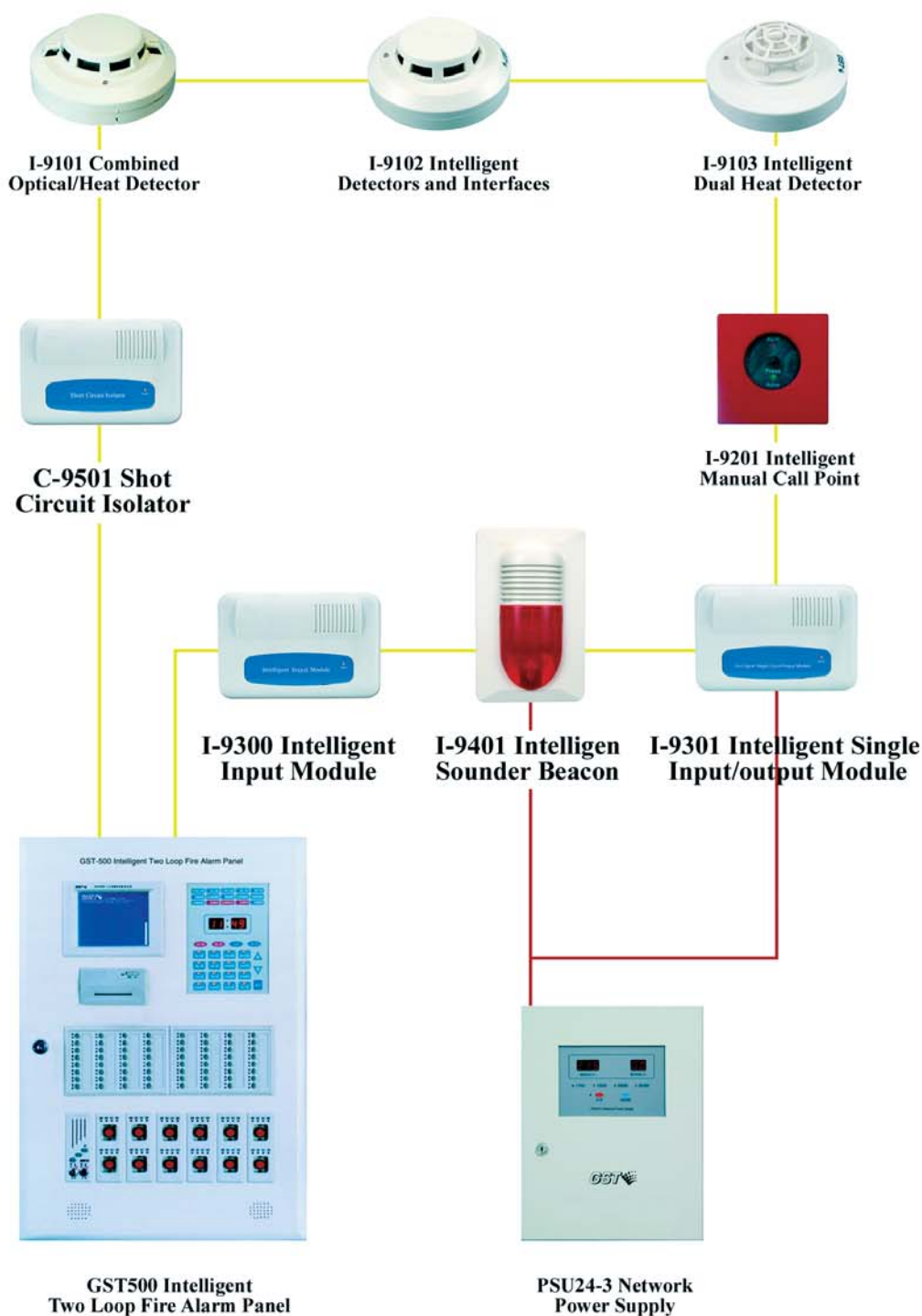- Electronically addressed

I-9318

Emergency Remote Control

- Emergency Abort / activate gas release buttons

I-9317

Intelligent Fire Alarm System

I-9101 Combined
Optical/Heat Detector

I-9102 Intelligent
Detectors and Interfaces

I-9103 Intelligent
Dual Heat Detector

C-9501 Shot
Circuit Isolator

I-9201 Intelligent
Manual Call Point

I-9300 Intelligent
Input Module

I-9401 Intelligen
Sounder Beacon

I-9301 Intelligent Single
Input/output Module

GST500 Intelligent
Two Loop Fire Alarm Panel

PSU24-3 Network
Power Supply

Intelligent Fire Alarm System Connection

C-9401 *Conventional*
Combined Sounder / Strobe

C-9101 *Conventional*
Optical /Heat Detector

C-9102 *Conventional*
Optical Detector

C-9201 *Conventional*
Manual Call Point

Active End of Line

C-9101 *Conventional*
Optical /Heat Detector

C-9103 *Conventional*
Heat Detector

C-9201 *Conventional*
Manual Call Point

Active End of Line

GST108 8 *Zone*
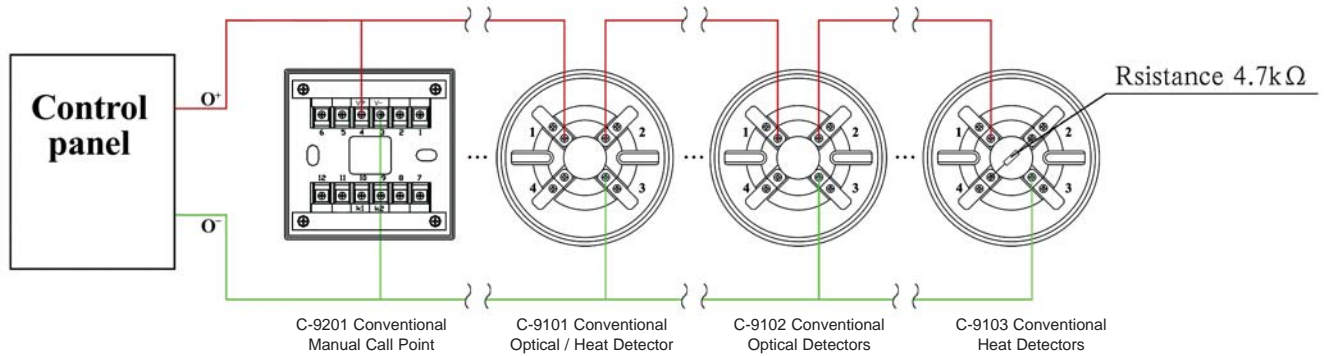**Conventional Fire Panel**

Conventional Fire Alarm System Connection

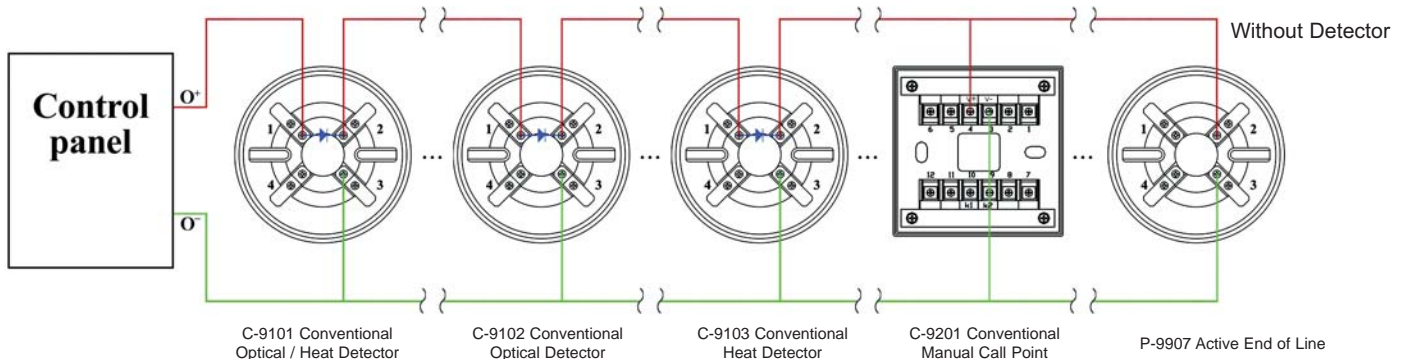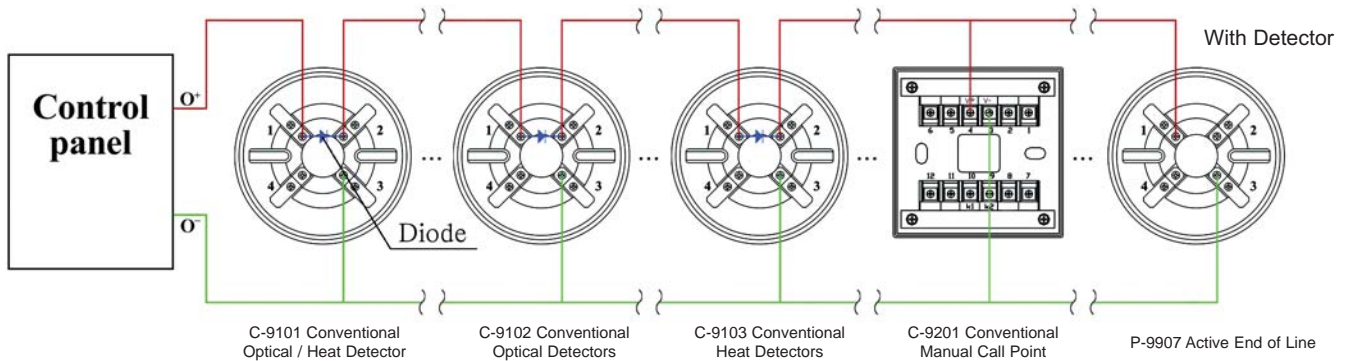**1. Using End Of Line Resister.**

NOTE In compliance with EN/BS standards, when using EOL Resister, call points should be wired before detectors, so that the removal of any detector will not inhibit call points from operating.

Rsistance 4.7kΩ

C-9201 Conventional Manual Call Point   C-9101 Conventional Optical / Heat Detector   C-9102 Conventional Optical Detectors   C-9103 Conventional Heat Detectors

2. Using Active Of Line:

AEOL enables call points to be installed in any location on zone (circuit), as will not be affected by removal of detector (Diode base DZ-03D) is required for detectors).

Please pay attention to the polarisation.

With Detector

Diode

C-9101 Conventional Optical / Heat Detector   C-9102 Conventional Optical Detectors   C-9103 Conventional Heat Detectors   C-9201 Conventional Manual Call Point   P-9907 Active End of Line

Without Detector

C-9101 Conventional Optical / Heat Detector   C-9102 Conventional Optical Detector   C-9103 Conventional Heat Detector   C-9201 Conventional Manual Call Point   P-9907 Active End of Line

GST is widely accepted as a World Leader in the development and manufacture of Integrated Fire Detection and Building Automation Systems.With the complete range of products GST has a solution to suit your requirements, from a small system up to large fully integrated solution.

This catalogue provides an overview of our range of fire detection products, other products manufactured by GST not covered in this publication include:

Intelligent Voice Alarm (VA)

EX Intrinsically Safe Fire Detectors and Barriers

Intelligent Integrated Building Management Systems.

Intelligent Hotel and Guest Room Control Systems.

Intelligent Residential Control Systems .

Intelligent Power Metering.

Smart Card Controlled Power Metering.

Intelligent Access Control.

For further information and enquiries about the GST range of equipment please contact your Regional GST approved systems partner as detailed on the rear cover of this publication, or via our Website **www.gstplc.com**

E-mail:**info@gstplc.com**

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