

**GST116**

## Features

- ◆ Microprocessor based controller
- ◆ 16 detector zones and 4 sounder zones
- ◆ Maximum 25 detectors in each zone
- ◆ Day / night mode
- ◆ Short / open circuit detection
- ◆ Max time delay 18 minutes

## Descriptions

GST116 conventional fire alarm control panel is fully automatic hardwire fire alarm panel and is designed according to European Standard EN54-2. It is reliable and easy to operate.

GST116 is particularly suitable for small areas, such as residential houses, shops, schools and plant. It provides a simple and low-cost solution to protect a small space from fire.

The programming and operation is simple. Two keys are provided to ensure only the authorized personnel can program and operate the panel. The display of the panel can give all the status of the system: normal, fault alarm and fire alarm.

The sounder output is programmable; it can be done with the keypad on the panel. The panel has most common functions in fire alarm system, such as zone isolation (zone disable), sounder output delay, day/night mode. In day mode the sounder output delay is enabled; while in night mode the delay is disabled automatically.

The panel has built-in battery with automatic charger. The battery will be able to operate the system in standby mode for at least 24 hours.

GST116 fire alarm panel is compatible with most conventional fire detectors or manual call point.

An optional output board can be installed to add additional 8 outputs to the panel. These are non-programmable outputs.

Repeater output is available for the remote graphic annunciator.

## Specification

16 detection loops  
25 detectors per loop with end of line resistor; or  
15 detectors per loop with active end of line unit.  
Manual call point is not counted in the loop.  
Loop voltage: 15 to 28 Vdc, nominal 24Vdc  
Loop current in standby: < 6mA  
Loop current in alarm: 25mA  
Alarming resistance: 150Ω -1.5kΩ (nominal 470Ω)  
Terminal resistance: 4.7kΩ, or using active end of line unit (AEOL)  
Class of wiring: class B (open loop)  
Loop cable: two single non-shielded copper wire, minimum size 1 mm<sup>2</sup>.  
Max loop cable length: 1000m

4 supervised programmable sounder outputs  
1 supervised fire alarm output  
Output voltage in alarm 20 - 28Vdc  
Output voltage in standby: -7.5Vdc  
Terminal resistance: 4.7kΩ  
Total sounder output current: max. 0.7A  
Max. alarm output current: 0.3A  
Cable of output loop: two single non-shielded copper wire, minimum size 1.5 mm<sup>2</sup>.

Fault alarm output:  
No and NC contact, 2A/24Vdc

Auxiliary power output: 20 - 28Vdc, 0.3A

Repeater output:  
Power on, Fire, Fault, Day mode, Isolated, and 8  
Zone fire alarms. 6mA per LED

Expanded output (optional):  
16 fire alarm outputs, NO contact, 2A/24Vdc  
16 fault alarm outputs, NO contact, 2A/Vdc

Power supply: 220Vac, 50Hz  
Backup power: 24Vdc  
Backup battery: sealed lead acid, 2x12Vdc, 7Ah  
Standby time: > 24 hours  
Operation temperature 0 °C to 40 °C  
Dimension 380 x 320 x 95 mm