

GST-NRP00 GST-NRP00-HU GST-NRP00-PT Network Repeater Panel



Installation and Operation Manual

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Installation Precautions

Adherence to the following will aid in problem-free installation with long-term reliability:

- Do not attempt to install, service, or operate this unit until this manual is read and understood.
- This equipment must be installed in accordance with these instructions and the appropriate national, regional and local regulations specific to the country and location of the installation. Consult with the appropriate Authority Having Jurisdiction (AHJ) for confirmation of the requirements.
- \diamond It shall only be installed and serviced by trained specialist.
- ♦ Disconnect all sources of power before servicing.



Chapter 1 Product Introduction

GST-NRP00/GST-NRP00-HU/GST-NRP00-PT Network Repeater Panel is simple installation, operation, and easy maintenance. It is used in fire alarm system with the following features:

- 1 The LCD can display 8 lines in total and 18 characters each line, assisting the 15 LEDs to display important information.
- 2 The memory does not lose data even if power supply is accidentally removed.
- 3 RS485 interface enables networking.





Chapter 2 Technical Specifications

2.1 Electrical Specifications

- ♦ Voltage: 20VDC~27VDC
- ♦ Current is less than 350mA normally and less than 500mA in fire condition.
- Standby power consumption does not exceed 9W and maximum power consumption does not exceed 13W.

2.2 Communication Loop Parameters

- ♦ 2 channels of RS485 interface.
- ♦ Transmission media: twisted pair.
- ♦ Communication distance: less than 1200m.

2.3 Dimensions

The dimensions of the repeater panel is 390 mm×270mm×100mm (L x H x W) as shown in Fig. 2-1.



Fig. 2-1





Chapter 3 Structure

3.1 Appearance and Internal Structure

The network repeater panel is flush mounted. Its appearance and internal structure are shown in Fig. 3-1 and 3-2.



Fig. 3-1 1 Clock 2 LCD 3 Indicators 4 Keypad



1 Main board 2 Switch board 3 LCD 4 Network board 5 Speaker 6 DC-DC Power supply 7 Terminal board

3.1.1 Description of LEDs

FIRE: Red. It illuminates when the repeater panel receives a fire alarm message from fire alarm control panels (FACP) in network. After fire condition is removed, the fire status can only be cleared by pressing *RESET* key, and this LED goes out simultaneously.

JLT: Yellow. It illuminates when it receives fault messages from ork or when there is fault with itself. It goes out automatically after



the fault condition is removed.

- DISABLE: Yellow. It illuminates when the repeater panel receives, from FACPs in network, disabled messages of connected devices, FP.E. output or SOUNDER CIRCUIT OUTPUT. It goes out when such status is canceled.
- SYSTEM FAULT: Yellow. It illuminates if the program encounters a dead halt. After the system is rebooted, only by pressing *RESET*, can system fault be cleared, and this LED goes out.
- ♦ PRE-ALARM: Red. It illuminates if there is pre-alarm message.
- ♦ POWER ON: Green. It illuminates when system power is normal.
- POWER FAULT: Yellow. It illuminates when the repeater panel receives message of fault with FACPs in network. After the fault is cleared, it will go out.
- F.P.E. FLT/DISABLE: Yellow. It flashes when the repeater panel receives message of fault with F.P.E. output and illuminates steadily after the F.P.E. is disabled. It goes out after the fault and disabled conditions are cleared.
- SOUNDER FLT: Yellow. It illuminates when the repeater panel receives message of fault with the SOUNDER CIRCUIT OUTPUT of FACPs in network. It goes out automatically after the fault is cleared.
- SOUNDER DISABLE: Yellow. It illuminates steadily after the SOUNDER CIRCUIT OUTPUT of FACPs in network is disabled. It goes out automatically after the disabled condition is cleared.
- ♦ TEST MODE: Yellow. It illuminates when the repeater panel is under commission.
- SILENCE: Yellow. It illuminate after SILENCE key is pressed, and goes out when RESET key or EVAC key is pressed.
- EVAC: Red. It illuminates after EVAC key is pressed and goes out when RESET or SILENCE key is pressed.

3.1.2 Description of Keys

- SYSTEM: System set-up key (manager password required), used for setting system time, modifying operator password and manager password, setting network system, and system initialization.
- ♦ TEST: Self-test key (operator password required). Pressing this key in normal standby state can self-test the audible and visual indication.
- MODE: Mode setting key (operator password required). Pressing this key can set the LCD contrast, message display modes, manually start device and manually stop device.
- ♦ TAB: For switching different type of messages in display screen; for moving the cursor under input screen.
- \diamond RESET: Resetting the repeater panel or FACPs in network (operator password

wsing network information.



- ♦ LOG: Viewing history record.
- MUTE: Pressing this key can silence the sound of FACPs and GST-NRP01 repeater panels in network.
- VIEW FAULT: If the repeater panel is not displaying fault messages, pressing this key can view fault messages.
- ♦ LOCK: Locking the keypad when it is unlocked.
- $\diamond \quad \stackrel{\bigtriangleup}{=}, \quad \stackrel{\overline{\bigtriangledown}}{\overline{\bigtriangledown}}$: Scrolling among more than one piece of displayed messages.
- ESC: Canceling or quitting the operating menu. If it's pressed while the repeater panel is displaying messages, it will resume to display messages of the highest level.
- VIEW DISABLE: If the screen is not displaying disabled messages, pressing this key can view the disabled messages.
- ENTER: Confirming inputs to be valid. In normal standby state, pressing it can toggle the clock display between month/day mode and hour/minute mode.
- SILENCE: Pressing it can silence the sounders and close the output of alarm bell.
- EVAC: Pressing this key can start all sounders and bells in the system to evacuate people.

3.2 Configuration

3.2.1 Default Configuration

A standard repeater panel consists of main board, power converter module and display and operation part.

♦ Main board

Main board is the core of the repeater panel, which contains CPU and interfaces to other main parts.

♦ Power converter module

The power converter module is used for converting the power supply from 24VDC to 5VDC.

♦ Display and operation part

This part is used to indicate and display different status of the system, and enables relative operations through keypad (browsing, setting and etc).

3.2.2 Optional Components

♦ Network Card (P-9940A, P-9960A, P-9960)

The network card is used for connecting GST series FACPs into network. Refer to Appendix 1 for wiring.





Chapter 4 Installation

4.1 Configuration Inspection

Before installation, check the following items:

♦ Engineering Configuration

Check the configuration according to packing list. The main items to be examined are: installation and operation manual, keys to the repeater panel, etc.

♦ Internal Configurations and Interconnections

All internal parts have been connected (including optional units ordered) before the repeater panel leaves the factory. Therefore, you can mainly check the connection among parts, including the connection between main board and power converter board, switch board and network board, the connection of power converter board, network board and terminal board, and of speaker and main board etc. Please refer to Appendix 1 for the internal connection diagram.

4.2 Installing the Cabinet

Dimension of the cabinet is shown in Fig. 4-1. Ambient conditions for installation of the repeater panel:

Temperature: 0°C~+40°C

Relative humidity: ≤95%, non-condensing



Fig. 4-1

4.3 Start-up Check

After installation, apply power to it as shown in Fig. 4-2. Turn on the power supply and check if the repeater panel can self-test. The procedures are as follows.

 \diamond Check if the digital displays showing time are illuminated one by one.

D showing system messages such as fire alarm is illuminated.

Ds showing the state of system can be illuminated one by one.



♦ Check if the speaker can give two kinds of loud alarm sounds.

4.4 Connections of Field Devices

4.4.1 Connection of Power Supply

The input power for the repeater panel is non-polarized 24V, which is converted to 5V by a DC-DC converter module.

4.4.2 Connection of Communication Loop

The connection of communication loop is shown in Fig. 4-2, in which any "Fire Panel n $(n=2\sim32)$ " can be replaced with a repeater panel.



Fig. 4-2





Chapter 5 Display and Disposal of System Information

The network repeater panel can be started after installation. Turn on the power switch, the repeater panel starts self-test and then enters normal standby state. The system will display properly if it is in normal state, otherwise it will display abnormal information.

5.1 Normal Information

The normal display is shown in Fig. 5-1, which means the system is in working state. Then only *POWER ON* LED lights.





Fig. 5-2 shows the system is in normal operation but with disabled devices. Pressing *VIEW DISABLE* can browse these devices.



Fig. 5-2

5.2 Fire Alarm

5.2.1 Fire Alarm Screen

FIRE LED is lit and fire alarm signal is displayed from the networked FACP when there is fire. It is shown as in Fig 5-3.

	001 0f 006 !FIRE! 05:25 Zone:001-030MCP Device-30	
	Last !Fire! Zone:003 Zone 3 Device-066	
	Fig. 5-3	
33300	Page 9	



- ♦ 001 0f 006 !FIRE! 05:25 // There are six devices with fire alarm signals, and this is the first.
- ☆ Zone: 001-030MCP // The number of zone with fire alarm and type and address of the device in fire alarm.
- ♦ Device-30 // Description of device in fire alarm.
- ♦ Last !Fire! Zone:003 // Zone number of the last fire alarm.
- Zone3 Device-066 // Description of the device and of that zone with the last fire alarm.

5.2.2 Disposal of Fire Alarm Signal

When fire alarm occurs, first find out the location according to the information shown on the repeater panel and verify if there is a real fire.

If it's a real fire, please take corresponding measures as outlined below.

Step 1: Evacuate people.

Step 2: Call the fire department.

Step 3: Initiate extinguishers.

If it is a false alarm, please take the following measures.

Step 1: Press SILENCE to stop the sound.

Step 2: Remove the causes of the false alarm.

Step 3: Press *RESET* to make the FACP back to the normal state. If the device still gives false alarm, disable it using a FACP in network and inform the installer or manufacturer for repair.

5.3 Fault

5.3.1 Fault Indication

In case of fault, the repeater panel and FACPs in network display the fault message simultaneously and light corresponding LED.

- ♦ Mains fault: If the AC power of networked FACPs is down, the repeater panel reports AC fault, and
 - > Lights COMMON FAULT and POWER FAULT LED.
 - > The LCD displays "AC FAULT".
 - Generates fault sound.
- Battery fault: The repeater panel reports battery fault if the battery voltage is lower than 18.9V, and would:
 - > Light COMMON FAULT and POWER FAULT LED.

isplays "BATTERY FAULT".



- Generates fault sound.
- ♦ System fault: The repeater panel would report system fault if its control CPU and circuits are in fault and it cannot work normally.
 - > It lights the COMMON FAULT and SYSTEM FAULT LED.
 - > There is no display on the LCD.
 - > The repeater panel generates continuous alarm sound.
 - > The repeater panel cannot monitor fire alarm.
 - > The keypad cannot be used.
 - If system fault indication remains for less than 5 seconds, the repeater panel will assume that this is not a true fault and automatically clear the LED and sounder indication and return to normal monitor state. If system fault indication remains for more than 5 seconds, the repeater panel will then interpret it as a genuine fault and the LCD displays "System fault must be reset manually. System time must be reset." after it's cleared. You need to press *RESET* key to clear the fault indication and reset system time.
- Keypad fault: The repeater panel reports keypad fault if its keypad circuit is in fault, and
 - > Lights the COMMON FAULT and SYSTEM FAULT LED.
 - > The LCD displays "Key fault".
 - > Generates continuous alarm sound.
 - The keypad cannot be used.
 - > The repeater panel can monitor fire alarm.
 - > The repeater panel can reset automatically after the fault is removed.
- Periphery device fault: If there is trouble with one of the periphery devices of the networked FACP, the repeater panel reports fault with it, and
 - > Lights the COMMON FAULT LED.
 - Generates fault sound.
 - The LCD displays the fault message of the net device. The fault screen is as in Fig. 5-4.

	001 0f 004FAULT10:18 Zone:003-011Optical
	Fig. 5-4
2300	Page 11



- O01 0f 004 FAULT10:18 // There are four devices reporting fault, and this is the first.
- Zone:003-011Optical // The number of the zone with the fault message, the address and type of the device with the fault message.

5.3.2 Disposal of Fault Message

There are two kinds of fault message. One is system fault, like AC fault, battery fault, and loop fault. The other is field device fault, like fault with detectors and modules etc.

- If the Networked FACPs are powered by battery for longer time than its capacity, the repeater panel will shut down to protect the battery. Please charge the battery in time to avoid any possible damage to it.
- ♦ If it is system fault, please check and repair in time. If the repeater panel needs to be shut down, please make detailed notes.
- ♦ If it is field device fault, please repair it in time. You can disable it if the fault can't be cleared for some reason, and enable it when the fault is removed.

5.4 Rules for Message Display

If there are multiple messages in the system, they will be displayed in the following order: fire alarm, action, fault, start, disable.

- 1 The earliest fire alarm is displayed in priority. The latest action, fault, disabled message is displayed in priority.
- 2 There are zone and loop display modes for fire alarm, fault, and disabled messages. And start and action only has loop display mode.
- 3 In any display mode, the system will return to displaying of the highest priority if there is no operation within 20s ($15s \sim 30s$).

5.5 Rules for Sound Indication

The repeater panel will sound to indicate fire alarm or fault messages.

- \diamond The repeater panel gives fire engine sound when fire alarm occurs.
- ♦ The repeater panel gives ambulance sound when fault occurs

The repeater panel will give sound of higher priority if two types of event occur simultaneously.





Chapter 6 Description of System Operation

6.1 Keypad

6.1.1 Keypad Functions

Most of the keys have double functions. Lower mark is a character and upper mark is a command that is only activated in monitoring state. Most function keys are controlled by password. The characters are only active after entering the menu. Pressing *ESC* will return to previous level of the menu.

6.1.2 Methods of Data Input

Pressing a character key, all characters disappear, and the display shows the newly input one. The cursor will indicate the next input position (The cursor always indicates the position of the next to input, and returns to the first character after completion of a line). Pressing $\stackrel{\Delta}{=}$ or $\stackrel{=}{\nabla}$, to move the cursor to modify any character.

Pressing *TAB*, the highlight moves to the next position and returns to the first after the last position. Wherever the cursor is, Pressing *ENTER* key, all the input data will be saved.

If there is no keypad operation for over 1 minute, the system will exit present state without saving the input data.

6.1.3 Unlocking and Locking the Keypad

♦ Unlocking the Keypad

The repeater panel is locked by default when powering up. If some operations are needed, the LCD will display a screen requiring proper password. Inputting the correct password and pressing *ENTER*, you can continue to operate as the keypad is unlocked. See Fig. 6-1.



Fig. 6-1

♦ Locking the Keypad

The keypad shall be locked after operations are finished or personnel on duty leave. Pressing *LOCK*, the screen will display "**Press ENTER confirm**" like in Fig. 6-2. Pressing *ENTER*. the keypad is locked. You will have to input password again to unlock new operation.





Fig. 6-2

6.2 User Operation Instruction (No Password Requirement)

6.2.1 Changing Time Display

The clock is usually displayed in hour and minute. In normal monitoring state, pressing *ENTER*, month and date are displayed. Pressing *ENTER* again or after a minute, hour and minute are displayed again.

6.2.2 Browsing Messages

6.2.2.1 Turning pages

You can look through information one by one by pressing $\stackrel{\Delta}{=}$ and $\stackrel{=}{\nabla}$.

6.2.2.2 Browsing more than one piece of message

The current information is highlighted when there is more than one piece of message on the LCD. You can view details of this item by pressing *ENTER* or exit by pressing *ESC*.

6.2.2.3 Browsing registered devices

Pressing BROWSE can view network devices.

6.2.2.4 Browsing history log

Pressing LOG, the repeater panel enters the state of browsing history record. Using $\stackrel{\Delta}{=}$

and $\overline{\nabla}$, you can browse every item, the screen is shown in Fig. 6-3.





- ♦ ! FIRE! // Fire alarm message
- ♦ TIME: 10:23 14/08 // Date and time of the event
- ♦ Zone: Name // Zone number, zone name
- ♦ 121 Optical // Device address and type

6.2.2.5 Browsing fault messages

You can view fault messages by pressing *VIEW FAULT* when the screen is displaying non-fault messages. The display varies by the type of fault messages. Please refer to Section 5.3.

6.2.2.6 Browsing disable messages

You can view disable messages by pressing *VIEW DISABLE* when the screen is displaying non-disable messages. The screen of loop mode is shown in Fig. 6-4 and the screen for zone mode is shown in Fig. 6-5 and Fig. 6-6.

001 of 003 Disable 12:01 Zone: 001-004Sounder
Office1

Fig. 6-4

- O01 of 003 Disable 12:01 //There are three disabled devices in the system and this is the first.
- ♦ Office1 //Description message of the disabled device.





- O01 of 002 Disable 12:01 // There are devices from 2 zones that are disabled, and this is the first zone.
- Zone: 005-Z-005 // Zone number and description message of the disabled

// All 29 devices of the current zone are disabled.



♦ Zone Fully Disabled // Current zone are completely disabled.

002 of 002 Disable 12:01 Zone: 006—Z-006 016/030 Zone Part Disabled



- ♦ 002 of 002 Disable 12:01 // There are devices from 2 zones that are disabled, and this is the second zone.
- \Rightarrow Zone: 006-Z-006 // Zone number and description message of the disabled zone.
- \Rightarrow 016/030 //There are 16 disabled devices in all 30 devices of the current zone.
- ♦ Zone Part Disabled // The zone is partially disabled

6.2.2.7 Browsing action messages

You can view action messages by pressing *TAB* when the screen is displaying non-action messages. The screen is shown in Fig. 6-7.

Fig. 6-7

- O01 of 004 ACTION 12:15 // There are 4 action messages in the system and this is the first, time 12:15.
- Zone:001-004Sounder //The zone number, device address and device of the device in action.
- ♦ Office1 //Description message of the device in action.

6.2.3 Mute

у.

Pressing *MUTE* can stop the speaker of this repeater panel, networked FACPs and other repeater panels; pressing *MUTE* again, they are still in mute state. They will sound by priority when one or more new event(s) appear(s), which can be silenced by further





6.3 Instructions for Operator (Operator Password Required)

6.3.1 Resetting the System

Pressing *RESET* can reset the repeater panel and all the control modules, outputs and detectors connected to the network FACPs, but will leave the disabled devices as they are. The LCD displays "RESET IN SYSTEM". LEDs will be turned off (Except for "POWER ON" LED). "RESET" information will be written into running log. If there is still fire alarm, fault and action not acknowledged after pressing the *RESET* key, the repeater panel will remain relative sound indications. If all messages have been acknowledged by pressing *RESET* key, the system returns to normal display state.

6.3.2 Checking All Visual and Audible Indications

In normal monitoring state, you can check all visual and audible indications of the repeater panel by pressing *TEST*.

6.3.3 Silence

Pressing *SILENCE* can silence the sounders and bells.

6.3.4 Evacuation

Pressing EVAC can manually start all sounders and bell to evacuate people.

6.3.5 Disable/Enable

Devices are disabled when a device is fault and the fault cannot be removed immediately. This device can then be temporarily disabled and enabled after it's repaired.

Pressing ENABLE/DISABLE, the screen will be shown as in Fig. 6-8.





In the screen as in Fig. 6-8, inputting number 1, you can enter device disable screen as shown in Fig. 6-9.





In the above screen, you can operate as follows: Enter 3-digit zone number or "*" at the cursor position after letter "Z". Enter 3-digit device code or "*" at the cursor position after letter "C". Enter 2-digit device type or "*" at the cursor position after letter "T".

Example 1, in order to disable a photoelectric detector whose device code is 001 in Zone 1, you need to input in sequence the zone number 001, device code 001 and device type 03.

Example 2, in order to disable all alarm devices with device type between 01 and 11 in Zone 1, you need to input in sequence the zone number 001, device code *** and device type **. Please note that the asterisk mark "**" is not allowed to use for action devices whose device type between 12 and 65.

In the screen as in Fig. 6-8, inputting number 2, you can enter device enable screen as shown in Fig. 6-10. In this screen, you can enable the device. Refer to description below Fig. 6-9 for operations.



Fig. 6-10

In the screen as in Fig. 6-8, inputting number 3, you can enter Delete Net Disable screen as shown in Fig. 6-11. In this screen, inputting number of disable information, and pressing *Enter* key, the disable message from connected FACP can be deleted.



Fig. 6-11





6.3.6 User Mode

Pressing MODE key can enter user mode setup screen as shown in Fig. 6-12.





In the above screen, you can operate as follows:

♦ Entering 1 in Fig. 6-12 will enter the screen for setting up LCD contrast, as shown in

Fig. 6-13. In this screen, " $\stackrel{\triangle}{=}$ " and " $\stackrel{\frown}{\nabla}$ " are used to adjust LCD contrast.

GST CO., LTD.
LCD Contrast
048

Fig. 6-13

Entering 2 in the screen of Fig. 6-12 will enter the screen for setting up display mode, as shown in Fig. 6-14. In this screen, choosing "1 Zone Mode" can browse system messages by zone, and choosing "2 Loop Mode" can browse by loop.





Entering 3 in the screen of Fig. 6-12 will enter the screen for manual start of system devices, as shown in Fig. 6-15. The FACP provides two modes, starting a single device and starting multiple devices. The method of operation and the use of "*" is the same as disablement operation.





Entering 4 in the screen of Fig. 6-12 will enter the screen for manual stop of loop devices, as shown in Fig. 6-16. The method for stopping a device is the same as starting a device.





6.4 Instructions for System Administrator (Manager Password Required)

Press SYSTEM to enter the system setting screen. The screen is shown in Fig. 6-17.

System Mode

- 1. Time/Date
- 2. Password Change
- 3. Network Setup
- 4. Zone Start Number
- 5. Initialize System







6.4.1 Modifying System Time

Inputting "1" in the screen of Fig. 6-17, the system enters Time/Date setting screen. See Fig. 6-18. After inputting time on highlighted position and pressing *TAB*, the next cell is highlighted. Press *ENTER* to save the modification.

	* Time/Da Please	te Setting* Input	
Day	Month	Year	
04	01	05	
Hour	Minute	Sec	
11	39	55	
	Fig. 6-	18	

6.4.2 Modifying Password

Inputting "2" on the screen in Fig. 6-17, the system enters the window of password modification. See Fig. 6-19. Now the passwords can be modified.





Inputting "1" or "2" to choose password to be modified, the system enters the window in Fig. 6-20.



Fig. 6-20

After the password (8 digits from 0-9) is input, the LCD will display the screen shown in Fig. 6-21, requesting to confirm password.





Modify Password	
Confirm Password	

Fig. 6-21

Input password again. If the two passwords are the same, the LCD will display the window shown in Fig. 6-22, meaning the modification is successful.

GST CO., LTD.	
Success	

Fig. 6-22

6.4.3 Network Setup

Inputting "3" on the screen in Fig. 6-17, the screen shown in Fig. 6-23 will be displayed.





In the above screen,

 You can set the repeater panel's network address by entering number 1, as shown in Fig. 6-24.

	Net Local Address
	Please Input: 01 Range 2-32
3 3 3 3 3 3	Fig. 6-24
5000	Page 22



♦ You can set the repeater panel to display network message or not by entering number 2, as shown in Fig. 6-25.

Display Mode	
1 Disable 2 Enable	

Fig. 6-25

6.4.4 Setting Zone Start Number

Inputting "4" on the screen in Fig. 6-17, the screen shown in Fig. 6-26 will be displayed. The zone start number of the FACP can be set up.

Zone Start Number		
Please Input 001		

Fig. 6-26

6.4.5 Initialization of System

Input "5" on the screen shown in Fig. 6-17, you can initialize system data.





Chapter 7 Troubleshooter

The FACP shall only be repaired by specially trained GST technical service personnel. Please disconnect the power before repair!

Possible off-normal conditions and their solution are listed in Table 7-1.

No.	Problems	Possible Causes	Solutions
1	No indication on the repeater panel or abnormal indication	a. Power is abnormalb. Loose connection with switchboard.	a. Check the input and output of power converter board.b. Check the connection with switchboard.
2	Cannot communicate with networked FACPs	The polarity of communication cable between the repeater panel and the FACP is reversed.	Correct the polarity of communication cable.

WEEE Information



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.





Appendix 1 Internal Connection Diagram



- ① Main Board MB-010
- ② Switch Board SB-010
- ③ LCD Screen SC-200
- (4) Network Card P-9940A
- 5 Speaker SP-200
- 6 DC-DC Converter PB-010
- ⑦ Terminal Board TB-010



- ⑤ Speaker SP-200
 -) 🤍 r PB-010
 - TB-010





- ① Main Board MB-010
- ② Switch Board SB-010
- ③ LCD Screen SC-200
- (4) Network Card P-9960
- ⑤ SpeakerSP-200
- 6 DC-DC Converter PB-010
- ⑦ Terminal Board TB-010





Appendix 2 Device Type List

Nodefine	00	Undefined
MultiDet	01	Multi-sensor detector
Heat	02	Heat detector
Optical	03	Photoelectrical smoke detector
User Def	04	User defined device
Gas Det	05	Gas detector
Beam Det	06	Infrared beam detector
FlameDet	07	Ultraviolet flame detector
Con FACP	08	Cable heat detector
User Def	09	User defined device
Flow SW	10	Water flow indicator
MCP (BG)	11	Manual call point
SounderB	12	Fire broadcast
Sounder	13	Sounder strobe
Flasher	14	Flasher
Lift	15	Lift
Damper	16	Damper
FireDoor	17	Fire door
AHU	18	Air Conditioner
Extract	19	Smoker exhauster
BMS	20	Building management interface
VAModule	21	Voice alarm module
FTModule	22	Fire telephone
HR MCP	23	Hydrant call point
HR Pump	24	Hydrant pump
SPKR Pmp	25	Sprinkler pump
Elevator	26	Fire elevator
User Def	27	User defined device
User Def	28	User defined device
User Def	29	User defined device
User Def	30	User defined device
Trouble	31	Fault output
PSU	32	Power supply unit
User Def	33	User defined device
User Def	34	User defined device
	35	User defined device
A	36	User defined device





User Def	37	User defined device
User Def	38	User defined device
Net Unit	39	Net unit
Repeater	40	Repeater panel
ZoneValv	41	Signal valve
Flow SW	42	Waterflow indicator
PS.DIFF	43	Foam pump
User Def	44	User defined device
User Def	45	User defined device
Gas Dump	46	Gas extinguisher start
GasAbort	47	Gas extinguisher stop
User Def	48	User defined device
User Def	49	User defined device
User Def	50	User defined device
User Def	51	User defined device
User Def	52	User defined device
Stop Mod	53	Device stop
Silence	54	Mute key
SounderA	55	Fire alarm sounder
SounderF	56	Fault sounder
Loop SW	57	Loop switch
CRTFault	58	GMC fault
Loop	59	Loop
PSU.Bat	60	Battery
PSU.AC	61	AC power
Lock	62	Control key
PART	63	Partial devices
ZoneDir	64	Zone indication



Appendix 3 Operation Menu

Menu

BROWSE To view networked devices					
LOG To view history record					
SILENCE To silence the sounders and bells [Operator password					
required]					
EVAC To start all sounders and bells [Operator password required]					
MUTE To silence the sound of FACPs and GST-NRP01 repeater panels					
in network.					
VIEW FAULT To view fault messages if the screen is not displaying					
them.					
TAB For switching different type of messages in display screen; for					
moving the cursor under input screen.					
TEST Audible-visible self-test key. To self-test the repeater panel in					
normal standby state [Operator password required].					
LOCK To lock the keypad .					
$ \stackrel{\Delta}{=} $ or $\stackrel{\Xi}{\nabla} $ To scroll the screen when there is more than one piece of					
information.					
ESC To cancel an output or exit a menu. In information display state, you					
can return the system to the highest level.					
VIEW DISABLE To display the information of disabled devices.					
MODE To set display mode					
LCD Contrast To set LCD contrast					
Browse Mode browsing Information					
Zone Mode Zone display mode					
Loop Mode Loop display mode					
Start Devices manual start of loop devices					
Stop Device manual stop of loop devices					
ENABLE/DISABLE [operator password required]					
1 Disable Devices					
2 Enable Devices					
SYSTEM Setting system menu [Manager password required]					
Time/Date Setting the system time					
Password Change Setting password					
Network Setup Setting network address					
ENTED To confirm the input is valid in manitaring state, proces this loss					
ENTER To commit the input is valid. In monitoring state, press this key					
BESET To report the reporter panel and all the control modules, outpute					
RESET To reset the repeater panel and all the control modules, outputs					
fire plarm or fault state [Operator password required]					



Gulf Security Technology Co., Ltd. No. 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei, P. R. China 066004 Tel: +86 (0) 335 8502434 Fax: +86 (0) 335 8502532 service.gst@fs.utc.com www.gst.com.cn