



Features

- **Programming via front panel**
- **Programming through the use of Laptop computer**
- **Modem connection capability**
- **Remote upload / download of software**
- **Remote interrogation of system**
- **Multiple level password protection**
- **Day / night sensitivity settings**
- **Self learn capabilities**
- **Control of all inputs / outputs via keypad**
- **Brigade output interrogation**
- **Pre-alarm level available**
- **Maintenance alarm level available**
- **Digital voltage readout**
- **Readout of detector analogue count**
- **Event Log**
- **Protocol capability – Hochiki ESP**
- **Simplicity in hardware design makes maintenance easier and more cost effective. A single processor module is used for analogue addressable loops and conventional zones**
- **Complies with GB4717:1993**
- **Complies with GB16806:1997**
- **Event Printer**
- **Information of service company displayed on LCD**
- **Expandable up to 8 loops or 128 conventional zones or a combination of both. Further expansion by networking.**
- **SPOT – Single Person Operated Test**
- **Networking – Single point programming**

Description

Hochiki GBH8 is a Fire Alarm Control Panel (FACP) designed to operate with intelligent loops using the Hochiki ESP protocol, Conventional two wire circuits or a mixture of both. This flexibility makes the **Hochiki GBH** suitable for a wide range of both new and retrofit applications.

The large graphics LCD display and step by step menu makes the operation and interrogation of the **Hochiki GBH** easy to follow. A 33-character description can be assigned to each intelligent device and to each input and output present in the system configuration allowing precise identification. Inputs can be monitored and outputs turned on or off, from the front panel controls facilitating easy commissioning and trouble shooting. Other features available via front panel keypad and LCD are event logs, power supply and battery voltage / status, testing menus, day / night sensitivity adjustments.

The **Hochiki GBH** can be programmed by three different methods.

- A self learn facility by which at power up the FACP automatically detects hardware fitted and intelligent devices connected, assigns them a default description and automatically programs the system memory.
- By using the front panel controls includes adding, deleting or editing intelligent devices and their descriptions.
- By using a Laptop or PC running the proprietary Windows based program developed by Ampac, **ConfigManager**. This comprehensive software tool allows full system programming including complex cause and effect algorithms.

With advanced software control the **Hochiki GBH** treats each input of a multi-input device as a unique entity although only one address is required for the multi-input device. The **Hochiki GBH** uses a special 'sub-addressing' techniques that allows each input to be zoned and have a descriptor assigned separately.

Simplicity of operation and installation is complimented by the ease in upgrading the **Hochiki GBH**. A modular approach allows the hardware configuration of the panel to be readily changed to meet the demands of a project. A combination of intelligent loops and conventional zones can be fitted to suit the application. A range of optional control modules allows further system enhancements including LCD Repeaters, remote LED Mimics, auxiliary relays, multiple sounder/ bell outputs, pump and sprinkler valve display boards, Network Interface Card, High Level Interface and Graphics.

For system designs that require a larger number of intelligent loops or conventional zones beyond a single **Hochiki GBH** control panel capacity or when distributed multiple **Hochiki GBH** control panels are required, networking is offered. A networked system is achieved when multiple **Hochiki GBH** panels are connected via a common redundant communications bus. The network configuration is flexible and can be configured to be Peer to Peer, Master to Sub or a combination of both. Control panels may have full network access or have restricted access, down to device level depending on the parameters set using **ConfigManager**. The entire site configuration program is stored in each of the networked control panels. The **Hochiki GBH** network has the ability to be interrogated and programmed from a single location. This single point-programming feature eliminates the need to attend each network node saving time when making changes to the configuration program.



Hochiki GBH8 FIRE ALARM CONTROL PANEL (GB 4717) A Analogue / Conventional Fire Alarm Control Panel

PDS8535-0200



Figure 1: Front Control Panel

CONTROLS

DESCRIPTION	FUNCTION
Silence / Resound Alarms	Used to silence the sounders. Toggle function to resound any silenced sounders.
Sounder Disable	Used to disable all sounders. Toggle function to enable all sounders.
Previous	Used for scrolling backwards through alarms, faults, or disables on the LCD.
Next	Used for scrolling forwards through alarms, faults, or disables on the LCD.
Reset	Returns the panel to its power up state. This means all detectors in alarm are reset to normal.
Fire Confirmed	Enables all sounders and the Auto Interlock Control System.
Silence Buzzer	Silences the panel buzzer.
Device Disable / Enable	Disables individual or groups of detectors, devices or zones.
Delay Override	Removes alarm activation delay from pre programmed devices.
Lamp Test	Initiates a lamp test of all indicators and LCD
Auto Interlock Disable	Disables automatic mode of plant outputs. Toggle function to return to Automatic mode.
Loop	Allows selection of the loop to access.
Device	Allows selection of the device to access.
Zone	Allows selection of the zone to access.
Display	Displays the state of the device selected.
Alphanumeric Keypad	Allows the selection of Alphanumeric characters.
To	Allows access to a range of devices.
Enter	Confirms data entered.
Cancel Entry	Deletes data in the current field or returns to the previously displayed menu.
◀, ▶	Used to move the cursor back and forth when

	entering data in a field.
◀◀, ▶▶	Used to move between fields when entering data.
Menu	Displays the main menu on the LCD.
Function	Displays the function menu on the LCD.

INDICATORS

DESCRIPTION	FUNCTION
Fire	Red
Fault	Amber
Disabled	Amber
Sounder Silence	Amber
Sounder Disable	Amber
Delay Override	Amber
Lamp Test	Amber
Auto Interlock Disable	Amber
AC Power	Green
Pre-alarm	Red
Test Mode	Amber
Power Fault	Amber
Sounder Fault	Amber
Earth Fault	Amber
System Fault	Amber
Input Device Activated	Amber
Time Delay	Amber
Battery Operation	Green



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Specification

Standard System	
Supply Voltage	85 ~ 264 VAC 47 ~ 63Hz
Operating Voltage	23 ~ 28VDC
Quiescent Current	360mA
Temperature	-20°C to 70°C
Humidity	0 -95% (non condensing)
Backup Interlock Control System	TERMINATION CARD: 8 Monitored outputs @ 500mA, 8 monitored inputs CONTROL CARD: 8 Control switches, 24 LED indicators.
Auto Interlock Control Indicators	32 LED indicators, showing status of plant outputs
Liquid Crystal Display	Graphical display 320 X 240 dots – backlit.
Modem Connection	RS 232 @ 19200baud
Printer Connection	Parallel (Panel mounted 40 character)
Relay Outputs	
Sounder 1.1	2 AMP (max) – fused monitored
Sounder 1.2	2 AMP (max) – fused monitored
Sounder 2	2 AMP (max) – fused monitored and 1A @ 24V volt free unmonitored
Alarm	Voltage free changeover 1 AMP (max) @ 24V
F.W.R.E.	1 AMP (max) – fused monitored and 1A @ 24V volt free unmonitored
F.A.R.E.	1 AMP (max) – fused monitored and 1A @ 24V volt free unmonitored
Disable	Voltage free changeover 1 AMP (max) @ 24V
Battery Fail	Voltage free changeover 1 AMP (max) @ 24V
Valve Monitor	Voltage free changeover 1 AMP (max) @ 24V
Spare Non-Monitored	Voltage free changeover 1 AMP (max) @ 24V
Panel Details	
Construction	Modular Plug in Assembly
Material	1.2mm Mild steel
Finish	Powder Coated
Dimensions GBH8	840mm H x 515mm W x 160mm D
Shipping Weight	21kg

Specification (Cont)

Configuration Available	
Basic Configuration	Two loop Hochiki GBH fitted with 5.6A PSU, 8 Way Backup Interlock controls, 32 Way Auto interlock indication and printer.
System Expandability	Up to a maximum of 8 loops or 128 Conventional zones or a combination of both (per GBH8 cabinet)
Intelligent Loop	Up to 127 devices may be connected to a loop.
Conventional Zone	16 zones per Conventional board
Networking	Allows expansion up to 75 intelligent loops or distribution of multiple GBH panels.

