

5. OPERATION

This section explains how to identify alarm events, use the Hush feature, reset the system, and understand fault indicators

5.1 WHAT TO DO IF THE ALARM SYSTEM SOUNDS

If your alarm system activates, evacuate the building immediately. Move to a safe location and ensure all occupants are accounted for.

Once everyone is safe, you can use the FHN-TH's Status LED to identify the type of alarm event:

- If the red LED flashes 3 times every 4 seconds, a Smoke or Heat Alarm has been triggered (fire event).
- If the red LED flashes 4 times every 4 seconds, a Carbon Monoxide (CO) Alarm has been triggered.

NOTE: Do not silence or reset the alarm system until the source of the alarm is known and all occupants are safe

5.2 USING THE HUSH & LOCATE BUTTON

The Hush function is used to temporarily silence all sounding alarms **except for the initiating device**, helping the user locate the source of the alarm while reducing noise.

To activate Hush mode:

- **Press the "HUSH & LOCATE" button once** during an active alarm.

All alarms in the system will stop sounding, except the initiating alarm.

The initiating alarm must be silenced manually by pressing its **Test/Silence** button on the alarm device.

While Hush mode is active:

- The **red LED** on the FHN-TH will flash continuously for **up to 10 minutes**

INFORMATION: The Hush function **does not disable** the initiating alarm - this ensures the source of danger can still be located.

5.3 RESETTING A ALARM LATCH

When the FHN-TH is set to Alarm Latch mode, the unit will continue to output an alarm signal and keep any connected relays active, even after the initiating alarm has stopped.

To reset the system and return it to standby mode:

- Press the HUSH button once to silence the alarms. This cancels the latched alarm signal and returns the system to normal operation.

5.4 POWERING DOWN THE UNIT (SLEEP MODE)

To place the FHN-TH into sleep mode, first disconnect mains power. Then press and hold both the Test and HUSH buttons simultaneously for 6 seconds. The unit will deactivate and enter a low-power sleep state to preserve battery life.

This function is useful in situations where mains power is temporarily restored for construction or testing purposes but the alarm system is not yet commissioned.

To reactivate the unit:

- Reconnect mains power, or
- Press and hold both the Test and HUSH buttons for 6 seconds to power the unit on its internal battery.

5.5 FAULT INDICATOR (BATTERY AND SYSTEM STATUS)

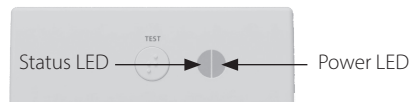
The FHN-TH includes a rechargeable backup battery to maintain basic operation during short power interruptions.

The system uses a yellow LED to indicate battery or fault status. Please see table 5.7.

WARNING: If the yellow LED is on continuously, the unit has developed a fault and should be replaced.

5.6 LED STATUS REFERENCE GUIDE

LED Status Indicators		
Normal Operation	OFF	System is powered and idle
Mains Power OFF	Green flash once every 32 seconds	Operating on backup battery
Fire Alarm	Red flashes 3 times every 4 seconds (500ms intervals)	Indicates a fire alarm has been triggered
CO Alarm	Red flashes 4 times every 4 seconds (100ms intervals)	Indicates a carbon monoxide alarm has been triggered
Hush Mode Active	Red flashing (200ms ON / 200ms OFF) for 10 minutes	Alarms (except initiating device) are silenced
Normal Test (Single Press)	Red ON for 1 second	Standard interconnect test
Relay Test (Double Press)	Red ON for 1 second after each press	Indicates full system and relay test
Normal Latch/Walk Test	7s solid red ON, followed by 4 red flashes (200ms intervals), repeating	Extended test mode active
Low Battery Warning	Yellow flash once every 60 seconds	Backup battery low
Battery Fault	Yellow solid	Charging fault, battery disconnected or high internal resistance
Power-Off Command	Red flashes twice (500ms interval)	Manual shutdown procedure activated



6. ALARM LATCH SWITCH

The FHN-TH includes an Alarm Latch switch on the back of the unit. This switch controls how the FHN-TH responds to alarm signals from the interconnected system.

You can configure the switch in one of two ways:



• LATCH MODE

In this setting, if any alarm in the interconnected system is triggered, the **FHN-TH will repeat the alarm signal** if the original alarm device stops responding or fails during the alarm event. This ensures the alarm condition is still visible within the system, even if the original device is no longer active or is destroyed. To clear the indication, press the **Hush button** on the unit.

• NO LATCH MODE (OFF)

In this setting, the FHN-TH will only show an alarm via its status LED **while another alarm in the system is actively detecting fire**. If the original alarm stops or fails, the FHN-TH will **stop indicating the alarm**, and no reset is required.

NOTE: Latch mode is recommended when you want the alarm status to remain visible, even if a device fails during an active alarm.

IMPORTANT: Latch Mode requires a manual reset using the Hush button to clear the indication once the alarm event has ended.

7. PRODUCT WARRANTY

Fireblitz Extinguisher Ltd. guarantees to you, as a purchaser, that the enclosed FHN-TH will be free from defects in material, workmanship or design under normal use and service for a period of 10 years. This Guarantee is not assignable. Our liability to you, under this guarantee is limited to repairing or replacing any part which we find to be defective in material, workmanship or design, free of charge to the customer, upon sending the product with proof of date of purchase, postage paid to Fireblitz Extinguisher Ltd. Units 15/17 Manford Industrial Estate, Manor Road, Erith, Kent DA8 2AJ UK. The terms of this guarantee will not apply in the following circumstances: If the product has been modified, dismantled, contaminated, damaged, neglected or otherwise abused or altered following the date of purchase, or if it fails to operate due to incorrect siting, installation, maintenance or inadequate or over voltage AC electrical power, or damage caused by failure to abide by the instructions supplied no claim under the guarantee will be entertained. The liability of FireHawk arising from the sale of this product or under the terms of this guarantee shall not in any case exceed the cost of replacement of the alarm. In no case, shall FireHawk be liable for consequential loss or damage resulting from the failure of the device or the breach of this or any other guarantee, express or implied or for damage caused by failure to abide by the instructions supplied. This guarantee does not affect your statutory rights.

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Firehawk
SAFETY PRODUCTS



Controller

MANUAL

FOR USE WITH FIREHAWK
FIRE & CARBON MONOXIDE ALARMS

10 YEAR
WARRANTY



FHN-TH



READ AND RETAIN THIS USER MANUAL

1. PRODUCT DESCRIPTION

The FireHawk FHN-TH is a wall-mounted Test & Hush control unit designed for use with FireHawk's FHN250 Smoke Alarm and FHN450 Heat Alarm. It provides convenient remote access to test and hush function. The unit is supplied as a front panel only and installs into a standard 1-gang pattress enclosure (not supplied). It also includes a built-in backup battery for functionality during power loss, and offers configurable alarm and relay latch functions for advanced control.

RF-Link Compatibility

When hardwired to an FHN series alarm fitted with an FHN600RF module, the FHN-TH can also operate within FireHawk's RF-Link network, enabling system-wide test, hush, and relay control functions.

Power supply: 230V 50-Hz

Battery Backup: 6 months on full charge

2. KEY FEATURES

• REMOTE TEST & HUSH CONTROL

Easily test and silence your FireHawk alarm system from a convenient wall-mounted location.

• COMPATIBLE WITH FIREHAWK MAINS-POWERED ALARMS

Designed for use with the FHN250 Smoke Alarm and FHN450 Heat Alarm, connected via hardwired interconnect.

• THREE TEST FUNCTIONS

Provides flexible testing options for both everyday users and professional installers:

Quick Test: A brief press of the test button sounds all interlinked alarm devices to check interconnect wiring without activating relays

Relay Test: Pressing the test button twice sounds all interlinked alarm devices and activates any relay in the system

Walk Test Mode: Repeats a test signal for 4 minutes, allowing a single installer to walk through the property and confirm all alarms are interconnected.

• SILENCE / LOCATE

The Hush button will silence all sounding alarms except the initiating alarm unit, helping users locate the source of danger quickly and effectively.

• RF-LINK COMPATIBILITY

When hardwired to a FHN Series mains-powered alarm fitted with an FHN600RF RF-Link module, the FHN-TH can send and receive signals within the RF-Link network

• ALARM LATCH FUNCTION OPTION

An additional latch setting determines how alarm signals are handled:

Latch: Alarm signal remains active until manually reset. If the activated alarm stops alarming the FHN-TH will keep the alarm signal active until the hush button is pressed.

No Latch: Alarm signal clears automatically once the alarm stops

• BUILT-IN BACKUP BATTERY

The FHN-TH includes a rechargeable internal backup battery, ensuring that test and hush functions remain available during temporary mains power loss.

• STANDARD 1-GANG MOUNTING

Supplied as a front panel only. Designed to fit into a standard UK 1-gang pattress enclosure, with a minimum depth of 35mm.

3. INSTALLATION

3.1 INSTALLATION LOCATION

WARNING:

1. This device and any connected alarms must be installed by a qualified electrician and in accordance with BS 7671.
2. All connected alarms and relay bases must be supplied from the same fuse or circuit breaker.
3. Ensure mains power is fully isolated before installation.

The FHN-TH should be mounted at standard light switch height for ease of use. Common locations include hallways, particularly near the master bedroom or main exit points.

There are two typical installation options:

1. As a wall switch, mounted in a visible and accessible location
2. In a distribution/switchboard cabinet, where remote activation is needed but physical visibility is less important

The FHN-TH is supplied as a front panel only and must be mounted to a suitable 1-gang pattress enclosure (not included).

The pattress must have a minimum depth of 35mm.

WARNING: If installing into a metal enclosure, ensure proper clearance, earth continuity, and isolation from live parts.

3.2 WIRING INSTRUCTIONS

Power Supply Requirements:

The FHN-TH must be supplied from either:

- a. A dedicated circuit from the main distribution board, with no other equipment connected (except a power failure monitor), or
- b. A separately protected, regularly used local lighting circuit

Use **6243Y 3-core and earth cable**, with a **minimum conductor size of 1.0mm²**.

All alarm circuits should be protected by a **6A overcurrent device**.

The **maximum total cable length** for the interlinked system must not exceed **250 metres**.

WARNING:

1. Do not perform high-voltage insulation testing with alarms or the FHN-TH connected, as this may damage internal components.
2. The FHN-TH does not require an earth connection. Refer to your alarm device instructions for any earth handling requirements.

3.3 WIRING STEPS

1. **Mount the pattress enclosure** at the chosen location, ensuring sufficient depth and clearance for wiring.
2. **Connect the supply and interlink cables** to the FHN-TH terminals as follows:

Wire Colour Connections:

- **Brown > Live (L)**
- **Grey > Neutral (N)**
- **Black > Interlink (I)**

NOTE: The FHN-TH does not require an earth connection

3. Set the device configuration switches on the back of the unit before mounting:
Alarm Latch Mode – Select whether alarm signals should auto-clear or require manual reset
Set the Alarm Latch Mode switch at the back of the unit. See section 6.1
4. Once all wiring and configuration is complete, **mount the FHN-TH front panel** to the pattress enclosure using the supplied fixings.
5. **Complete the installation** of all connected alarm devices (e.g. FHN250, FHN450) before powering the system.
6. **Turn on mains power to the system.** The green LED on the FHN-TH should illuminate.
7. **Test the system** to verify correct operation. Perform a full system test using the FHN-TH's built-in test functions once all devices are installed and powered.

POWERING THE FHN-TH The FHN-TH is shipped in sleep mode. It will automatically activate when mains power is connected.

To activate the unit without mains power, press and hold both the Test and Hush buttons for 6 seconds. The unit will power on using its internal battery. The green status LED will flash every 30 seconds to indicate the unit is active.

To return the unit to sleep mode, disconnect mains power (if connected), then press and hold both the Test and Hush buttons for 6 seconds. The unit will deactivate and enter sleep mode.

NOTE: Sleep mode can be used to preserve battery life if the property is powered for extended periods without the alarm system being commissioned (e.g. during construction or renovation).

4. SYSTEM TESTING

The FHN-TH includes multiple test functions to verify system connectivity, alarm operation, and relay response. These functions are accessed using the Test & Hush buttons on the front panel of the unit.

4.1 QUICK TEST (ALARM INTERCONNECT ONLY, NO RELAY TRIGGERING)

To confirm that all connected alarms are properly interlinked and responding, **press the Test button briefly**.

- The red LED on the FHN-TH will flash.
- All interlinked alarms in the system will sound.
- The internal relay and any connected FHN600 Relay Base units will not activate during this type of test.

4.2 RELAY TEST (ALARM + RELAY ACTIVATION)

To confirm that both the alarm interconnect and relay outputs are functioning correctly, **press the Test button twice**.

- All interlinked alarms should sound.
- Any Interlinked FHN600 Relay Base will **activate** according to their configured settings.

4.3 WALK TEST 1 (EXTENDED ALARM INTERCONNECT TEST – NO RELAY)

This test mode is intended to assist with verifying the interconnect functionality of all linked alarms. It repeats the test signal continuously for 4 minutes without triggering the relay output, allowing a single installer sufficient time to walk through the property and confirm that each alarm is responding correctly.

To activate the test:

- **Press and hold the TEST button for more than 3 seconds.**

The FHN-TH will enter **Walk Test Mode**, Repeating the test signal every 12 seconds for up to **4 minutes**.

To end the test

- Press the **Test** button again to end the test
- Or allow the test to automatically end after **4 minutes**.

INFORMATION: This test does not activate any connected FHN600 Relay Base units.

4.4 WALK TEST 2 (INTERCONNECT TEST – WITH RELAY ACTIVATION)

It activates all interconnected alarms and triggers any interconnected relay devices. Use this mode to confirm full system operation.

To Activate:

- **Press and hold the HUSH button for more than 3 seconds.**

During this test, all alarms will sound continuously, and relay devices will be activated.

To end the test:

- Press the **HUSH** button again,
- Or wait for the test to finish automatically after the 4-minute period.