User Manual

Wireless Interconnected Module GTRFM

GT HIGH PERFORMANCE SMOKE ALARMS. V 1.0.1

1. Important Safeguards and Warnings

The manual will help you to use the device properly.
Read the manual carefully before using the device, and retain it for future reference.

Operation Requirements

⚠ CAUTION
• Make sure that the power supply of the device works properly before use.
• Use the device according to the operating environment.
• Only use the device within the rated power range.
• Transport, use and store the device under allowed humidity and temperature conditions.
• Prevent liquids from splashing or dripping on the device. Make sure that there are no objects filled with liquid on top of the device to avoid liquids flowing into it.

Installation Requirements

⚠ WARNING
Failure to properly install and operate this device will prevent proper operation of the device and will prevent its response to fire hazards.

⚠ CAUTION
• Observe all safety procedures and wear required protective equipment provided for your use while working at heights.
• Do not expose the device to direct sunlight or heat sources.
• Retain the original packaging material because you might need it to pack the device and send it back for repair.
• Make sure the application scenario conforms to installation requirements.
• All installation and operations shall conform to your local electrical safety requirements, fire protection regulations and other relevant regulations.

2. Introduction
2.1 Product Information

The Wireless Interconnected Module is an optional add-on for the Wisualarm mains-powered smoke and heat alarm units where a wireless connection is required. This small-sized module is a simple and cost-effective way to enable the Alarm to communicate wirelessly with other WisuLink devices.

3. Technical Information

Specification	Introduction
Power Supply	Powered from Alarm Head
RF Range	A minimum of 100 metres in free space
RF Visual Indicator	• Flashing Red: RF transmission • Flashing Blue: Successfully interconnected
RF Frequency	868 MHz (-R8) or 925 MHz (-R9)
Interconnect	Up to 24 WisuLink devices
Operating Temperature	-10 °C to +55 °C (+ 14 °F to + 131 °F)
Operating Humidity	< 95% RH (non-condensing)
Colour	White
Casing	PC+ABS
Dimensions	53.5 mm x 38.2 mm x 11.7 mm (2.11" x 1.50" x 0.46")
Weight	11.8 g (0.03 lb)
Certification	AS/NZS 4268:2017, RCM, CE, UKCA

4. Device Installation
4.1 Installation

Follow the below steps to install the device properly:
Step 1: Disconnect the AC mains supply from the circuit that will be used.
Step 2: Using a flat-blade screwdriver, insert into the removal slot on the side of the Alarm that is to have the Wireless Interconnected Module installed. Slide the alarm head away from the screwdriver to detach it from the mounting plate.
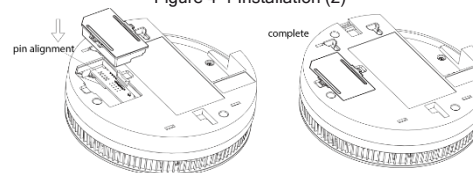
⚠ CAUTION
Make sure that you hold the alarm head to prevent it from dropping to the ground.

Figure 4-1 Installation (1)
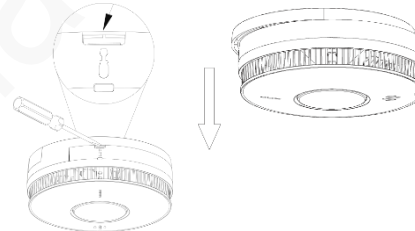
Step 3: Plug the module into the bottom of the alarm head. Hold the module, align the connection pins properly and insert them perpendicularly to the base.
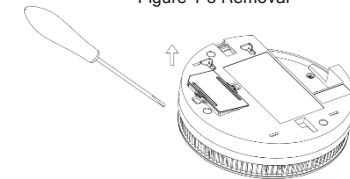
Figure 4-1 Installation (2)

pin alignment   complete

Step 4: Connect mains supply.

4.2 Removal

If you want to remove or replace a module already fitted to an alarm, please insert a flat-blade screwdriver to lift it by a few millimetres to release the connection pins.

Figure 4-3 Removal

5. Interconnection
5.1 How to interconnect new alarms

Step 1: Install the wireless interconnected module on the device.
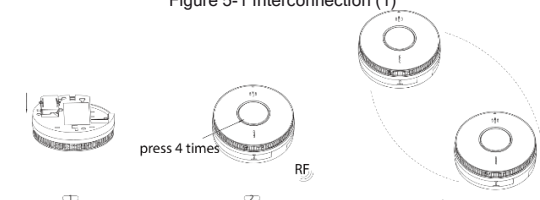**Step 2:** Press the **Test/Silence** button on the device 4 times in quick succession (the interval between each press is less than 1 second), this device will emit 1 short quick beep and 1 blue blink, indicating that the device is successfully interconnected.

⚠ CAUTION
If the blue communication LED does not respond properly, please repeat the operation until the blue LED indicator flashes.

Step 3: Repeat the above operations to add more RF alarms to the system, and make sure that all communication indicator LEDs flash blue.

Figure 5-1 Interconnection (1)

press 4 times   RF

5.2 How to interconnect alarms in an existing network

Make sure all alarms are powered on to ensure a successful interconnection.

Step 1: Press the **Test/Silence** button 4 times on device 2 (a previously interconnected device) to enter the interconnecting transmission mode, with the LED indicator flashing red and the buzzer beeping. This alarm will transmit an RF message to all previously interconnected devices to re-enter interconnection mode.
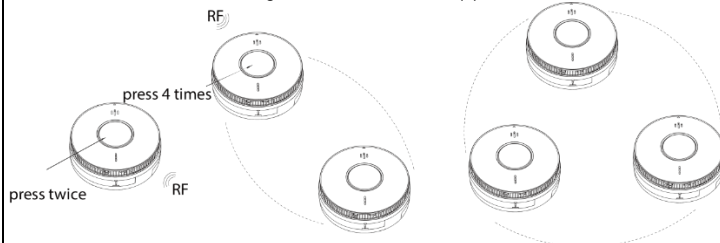
Step 2: Install the wireless interconnected module on device 1.

Step 3: Press the **Test/Silence** button twice on device 1 to join the interconnected network, and this device will emit 1 short quick beep and 1 blue blink.

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Device 2 will be in interconnecting mode for 3 minutes with the red LED indicator flashing once every 0.5 seconds. During this period, you can pair several hardwired alarms one by one. If needed, you can manually press the **Test/Silence** button to help device 1 quit the interconnecting mode; the red LED indicator will go solid for 3 seconds and the green LED indicator will flash once, then device 1 will emit 1 short quick beep, indicating the device has already quit the interconnecting mode and entered normal standby state. Once you press the button on device 1, device 2 will follow device 1 to quit the interconnecting mode and enter the normal standby state.

Figure 5-2 Interconnection (2)

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5.3 How to build a hybrid network of mixed hardwired and wireless interconnected alarms

This module can be used to connect a mix of hardwired and wireless interconnections, creating a hybrid network. If a hybrid system is required, select device 1 from a hardwired interconnected system and device 2 from a wireless interconnected system.
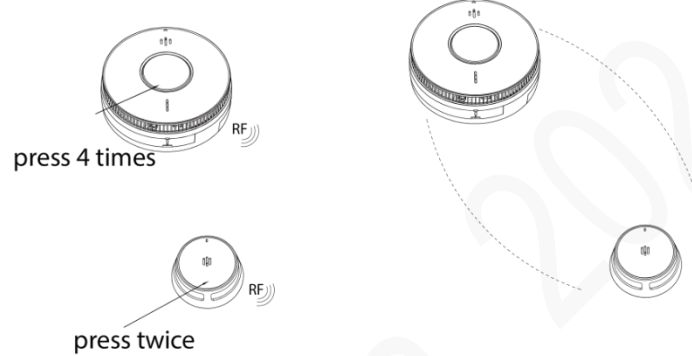
Step 1: Install the wireless interconnected module on device 1.

Step 2: Press the **Test/Silence** button on device 2, 4 times in quick succession (the interval between each press should be less than 1 second), this device will emit 1 short quick beep and the red LED indicator will flash continuously (about once every 0.5 seconds), indicating that device 1 has entered the interconnecting receiving mode.

Step 3: Press the **Test/Silence** button on device 2 twice (the interval between each press should be less than 1 second), this device will emit 1 short quick beep and the red LED indicator will start to flash rapidly (about once every 0.25 second), indicating that device 2 has entered the interconnecting transmission mode.

Step 4: The red LED indicator on device 2 will go solid and it will emit 1 short quick beep, then the green LED indicator will flash continuously, which means that the pairing between the two devices was successful.

Figure 5-3 Interconnection (3)

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5.4 How to disconnect the alarms

Step 1: Press the Test/Silence button 4 times in quick succession on the device that needs to unpair with other alarms, and the device will emit 1 short quick beep and the red LED indicator will start to flash continuously.

Step 2: Press and hold the Test/Silence button until the red LED indicator goes solid, then release the button. If the disconnection succeeds, the red LED indicators on all smoke detectors in the interconnected network will go solid for 3 seconds, then the green LED indicators will flash once together with the buzzer beeping once. You can connect it again to join an interlinked network.

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Please disconnect all the wireless interconnected smoke alarms if you want to use them in another interconnected network.

6. LED Indicator Summary Tables & Troubleshooting

State	Green LED (Power)	Yellow LED (Fault)	Red LED (Alarm)	Blue LED (Comms)	Buzzer
Normal RF transmission between devices	-	-	Flash	-	Beep once
Successfully interconnected	-	-	-	Flash	Beep once

7. Interconnection Test

When to test the system: A test must be carried out to verify proper functioning of the RF interconnectionsystem under the following circumstances:
• Completion of the system installation
• As part of regular maintenance (preferably once a month)
• If the house has been vacant for an extended period
• After repairing or replacing any of the system components or household appliances
• The house has been renovated

How to test the interconnection:
• Press and hold the **Test/Silence** button on any interconnected alarm until other interconnected smoke alarms start to beep and their red and yellow LED indicators flash.
• Release the **Test/Silence** button on the initiating interconnected device, it will stop flashing and beeping, the other interconnected devices will exit the test mode soon.

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8. Identifying the Fire Source

In a hybrid system consisting of Smoke/Heat/CO Alarms, it is important to identify the sources of alarm and take appropriate action.

⚠ **WARNING**
Never ignore any alarm. Failure to respond may lead to serious injury or death.
• If the alarm is due to smoke or heat: evaluate the premises and refer to the Smoke/Heat Alarm's User Manual for further guidance.
• If the alarm is due to CO: alert all occupants about the danger and evacuate the premises immediately. Refer to the Carbon Monoxide User Manual for more information.

9. Frequently Asked Questions

Problem	Analysis	Solutions
Blue LED communication indicator does not flash after pressing the **Test/Silence** button	The module is not installed correctly	Remove and reinstall the module
	The LED is faulty	Contact the supplier for advice.
Poor RF Signal	Some features of the home, such as number and position of walls, number/size of rooms, furniture and types of building materials may weaken the signal strength	Interference from physical structural limitations can be overcome by installing additional alarms to route the wireless signal around obstructions
		Shorten the communication path or remove obstacles that block the signal
		Move the alarms away from metal surfaces or wiring

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10. Disposal

♻ Waste electrical products should not be disposed of your other household waste. Please dispose in an environmentally - friendly manner, and strictly follow the local regulations regarding the disposal or recycling of the electrical device.

⚠ **WARNING**
Do not burn or dispose of in fire.

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11. Warranty and Contact

If you need after-sales service, please contact your place of purchase, or scan the QR code below.

Australian Importer: Smoke Alarms Australasia Pty Ltd
Address: PO Box 545 Bulimba Qld 4171

For more information, please scan the QR code or visit

https://www.gtsmokealarms.com.au

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