

FWSG-IN FLASHSCAN WIRELESS SYSTEM GATEWAY

GENERAL

The Notifier Wireless Fire Detection System can be applied in many situations that are problematic for traditional wired detectors. In cases where areas of a building are difficult or impossible to wire, visually sensitive, or have restricted access.

Wireless sensors provide an efficient, reliable solution.

Notifier Wireless Detectors communicate via a proprietary wireless mesh protocol to communicate with NOTIFER® fire alarm systems by means of a Wireless Gateway. The gateway connects to the SLC loop of an NFS2-3030, NFS2-640, NFS-320 panel using Flashscan® protocol. New type IDs for wireless detectors are supported that allow the FACP to display all events such as alarms and trouble indications, as well as unique trouble conditions required for wireless detectors. This capability eliminates the need for a supplementary annunciator for wireless event messages.

Each Wireless detector develop “parent-child” communication links with other detector in the mesh, so that a message originating from a remote detector “hop” to the closest parent detector, and then to successive parent detector until the message reaches gateway.

Alternate paths are also identified and supervised by the wireless protocol providing approved Class A wireless communication. If a detector does not have an established communication path with adequate signal strength, an additional detector such as a may be installed in between so that it will act as a repeater.

The Notifier Wireless gateway system supports up to 31 detectors: 1 Wireless gateway. The maximum number of gateways on a system is limited upto 3, irrespective of no of SLC on the FACP.

The Notifier Wireless system has been designed so that it can be installed using only typical hand tools and magnets. However, the Wireless Tools PC utility provides many benefits that can enhance the process of performing a site evaluation (Site Survey), installing a system (Mesh Configuration), or extracting detailed information from the system (Diagnostics). The utility runs on a Windows® laptop and uses a USB radio antenna (W-USB) inserted into a USB slot to communicate with wireless detectors within range of the PC. Once detectors have formed a mesh, W-USB Tools can provide current information on all detectors in the mesh as long as the PC is within range of the Wireless Gateway.

The result is a fire system that combines both wired and wireless detection and presents all event information at the panel and/or net- work displays, when used.

FEATURES

- Wireless mesh protocol specifically for fire and life safety systems.
- Operates in 865-867 MHz frequency.
- Patented cascading-wave mesh operation provides a verification of redundant communication paths that has been approved for Class A.
- In the event that a communication path is interrupted at any point by a change in the radio environment, the wireless mesh system will use the redundant or backup communication path.
- In the event that any links cannot be established with sufficient signal strength, any Wireless detector can be added to act as a repeater, eliminating the need for wired repeaters.
- Each Wireless gateway system support up to 31 detectors: 1 wireless gateway.
- Multiple wireless mesh networks can be installed on the same fire alarm control panel, or on multiple panels in the same area.
- Up to 3 wireless networks can be installed with overlapping radio network coverage.
- Site Survey feature allows for an evaluation of a site before the installation, including a series of point-to-point communication tests and a background scan for radio interference.
- Wireless detectors use a standard “code wheel” mechanism for setting the SLC address.
- Wireless detectors use (4) CR-123A lithium batteries (Panasonic CR123A) which are UL listed for a battery life of 1 year.



COMPATIBLE CONTROL PANELS

NFS2-3030

NFS2-640

NFS-320

WIRELESS TOOLS

Wireless Tools is a Windows PC-based utility that is used for site evaluation, system configuration, and diagnostics. The Wireless Tools program is used with the W-USB adapter to communicate with wireless detectors that are not joined in a network, or with one or more wireless gateways and all detectors that have formed a network with each gateway. A graphic representation of the wireless network provides important system data in an effective format, including communication links, signal strength, battery voltage, and more.

Tool-less operation is supported, allowing you to perform site evaluation and system configuration and installation can be accomplished without using Wireless Tools when necessary. Multi-colored LEDs on.

Wireless detectors provide feedback for interactions. At any point, only one instance of Wireless Tools can run on a laptop or PC.

Wireless Tools has the following utilities:

- Site Survey
- Create Mesh Network
- Diagnostics

Wireless Tools works in a wireless environment with the FWSG -IN and detectors within a range of approximately 20 feet. Wireless Tools is designed for systems running Microsoft® Windows®.

MINIMUM SYSTEM REQUIREMENTS

| | |
|------------------|---|
| Operating System | Windows 10 (64bit) |
| Hard Drive | 20 GB hard drive space with minimum 1GB free space on hard disk |
| RAM | Minimum 512MB RAM |
| Processor speed | 1GHz minimum (2.4 GHz recommended) Processor, 512K Cache |

COMPONENTS AND ORDERING INFORMATION

- **FWSG-IN: Flashscan Wireless System Gateway**
Notifier Wireless Gateway is required for each wireless mesh and supports up to 31 Wireless Detectors modules. Connects to the SLC loop of a compatible panel using FlashScan protocol. Power may be supplied by the SLC circuit or via an optional 24VDC input.

NOTE: Use of the 24VDC input may be more convenient for service as it allows for powering down a gateway without shutting down an SLC loop.

- **FW-DONGLE-IN: Wireless USB**
Radio/antenna dongle that plugs into the USB port of a PC running Wireless Tools. The W-USB provides a communication link with Wireless Detectors that are within approximately 20 feet and have not formed a mesh. Alternately, when the detectors have formed a mesh, bringing the PC/ W-USB within range (20 ft.) of the gateway for that mesh will allow Wireless Tools to acquire information on all detectors in that mesh, including point-to-point signal strength for all links.
- **FWD-200P IN: Wireless Photoelectric Smoke Detector**
FlashScan Intelligent Wireless Photo detector (B501W-WHITE Included). Requires (4) CR-123A batteries (included). **UL Listed.**
- **FWD-200P IN: Wireless Photo-Heat Detector**
FlashScan Intelligent Wireless Heat and Photo detector. (B501W-WHITE Included). Requires (4) CR-123A batteries (included). **UL Listed.**
- **FWH-200ROR135-IN: Wireless Rate of Rise Heat Detector**
FlashScan Intelligent Wireless rate of rise (57°C) Heat Detector (Base B501W-WHITE Included). Requires (4) CR-123A batteries (included).
- **FWH-200FIX135-IN: Wireless Fixed Heat Detector**
FlashScan Intelligent Wireless fixed-temperature (57°C) Heat Detector (B501W-WHITE Included). Requires (4) CR-123A batteries (included).

Honeywell

SPECIFICATIONS

PHYSICAL SPECIFICATIONS

| | |
|----------|-----------------|
| Height | 1.875" (4.5 cm) |
| Diameter | 7.875" (20 cm) |

OPERATING SPECIFICATIONS

| | |
|-----------------------------|---------------------------|
| Operating Temperature Range | 0°C to 49°C |
| Storage Temperature Range | -10°C to 60°C |
| Operating Humidity Range | 10% to 93% non-condensing |

ELECTRICAL SPECIFICATIONS

| | |
|---|-------------|
| External Supply Electrical Ratings | 20V - 30VDC |
| SLC Electrical Ratings | 15V - 30VDC |
| Maximum RF power output | +17 dbm |
| Radio Frequency | 865-867 MHz |
| Maximum current when using the external supply | 40mA |
| Maximum current when using the SLC power supply | 24mA |
| Maximum SLC Resistance | 40mA |

AGENCY LISTINGS AND APPROVALS

The file number below reference the specific listings for the equipment. Consult the factory for the latest listing status. **UL: S35595**

STANDARDS AND CODES

The Wireless System complies with the following standards and with NFPA 72 Fire Alarm system requirements.

- UL 864 - 10th Edition
- UL 268 - 7th Edition
- UL 521 - 7th Edition

COUNTRY OF ORIGIN

India

For more information,

www.honeywellbuildings.in

Call : 000-8000-502167

Email: notifiertechsupport@honeywell.com

Honeywell HBT India Buildings

Unitech Trade Center, 5th Floor, Sector-43, Block C,

Sushant Lok Phase - I, Gurgaon - 122 002

www.honeywell.com

Honeywell