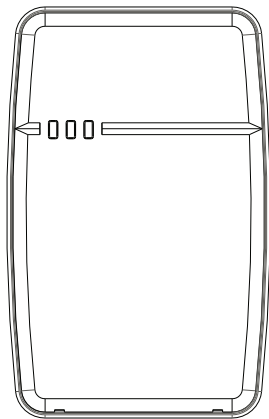


WS4920 v1.0

Installation Instructions



NOTE: Use these instructions in conjunction with the installation manual of the alarm panel with which this equipment is intended to be used.

WARNING: READ and SAVE These Instructions! Follow All WARNINGS AND INSTRUCTIONS specified within these instruction and/or on the equipment.

DSC

A Tyco International Company



29007856R001

SAFETY INSTRUCTIONS for WS4920 WIRELESS REPEATER

IMPORTANT:

This equipment, WS4920 WIRELESS REPEATER 1.0 shall be used installed and used within an environment that provides the pollution degree max 2 and overvoltages category II NON HAZARDOUS LOCATIONS, indoor only. The equipment is FIXED and DIRECT PLUG IN powered from the mains; it is designed to be installed by Service Persons only; [Service Person is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons.

1. The equipment is installed in a FIRE ENCLOSURE.
2. If during the installation a knockout is removed, it is the installer's responsibility to ensure that the same degree of protection for the enclosure is provided by the use of bushings, fittings, etc.
3. The enclosure must be secured to the building structure before operation.
4. Internal wiring must be routed in a manner that prevents:
 - Excessive strain on wire and on terminal connections;
 - Loosening of terminal; connections;
 - Damage of conductor insulation
5. It is the end-user and/or installer's responsibility to ensure that the disposal of the used batteries (battery pack) is made according to the waste recovery and recycling regulations applicable to the intended market.

WARNING: When using equipment connected to the MAINS, always follow basic safety instructions. Refer to the SAFETY INSTRUCTIONS provided with this product; save them for (future) reference. Instruct the end-user regarding the safety precautions that shall be observed when operating this equipment.

SAFETY precautions required during installation:

- NEVER install this EQUIPMENT during A Lightning Storm!
- NEVER touch uninsulated wires or terminals unless the Direct Plug In transformer has been disconnected
- Ensure that Cables are positioned so that accidents cannot occur. Connected Cables must NOT be subject to excessive mechanical strain
- **Use Only the Power Supply supplied with this equipment. Use of unauthorized power supplies may cause damage the repeater!!!**
- **The AC Socket/Outlet powering the equipment shall be located near the equipment and shall be easily accessible.**
- Do NOT locate this product where persons will walk on the secondary circuit cable(s).
- Do NOT use extension cords to PLUG-IN the Power Supply of this equipment.
- AVOID setting up the equipment near heaters, air conditioners, ventilators, and/or refrigerators
- Do NOT connect to electrical outlets on the same circuit as large appliances.
- Do NOT select a place exposed to direct sunlight, excessive heat, moisture, vapors, chemicals or dust.
- Do NOT install this Equipment near water. (e.g., bath tub, wash bowl, kitchen/laundry sink, in a wet basement, or near swimming pool, etc.).
- Do NOT install this equipment and its accessories in areas where there is a risk of explosion.
- Do NOT connect this equipment to electrical outlets controlled by wall switches or automatic timers; avoid interference sources.

WARNING:

THIS EQUIPMENT HAS NO MAINS ON/OFF SWITCH. THE PLUG OF THE DIRECT PLUG-IN POWER SUPPLY IS INTENDED TO SERVE AS THE DISCONNECTING DEVICE IF THE EQUIPMENT MUST BE QUICKLY DISCONNECTED. IT IS IMPERATIVE THAT ACCESS TO THE MAINS PLUG AND ASSOCIATED MAINS SOCKET/OUTLET, IS NEVER OBSTRUCTED.

Introduction

The WS4920 is a wireless repeater designed to extend the range of DSC one-way wireless transmitters and to improve signal quality between the transmitter and the receiver. Use the WS4920 to remedy transmission problems caused by excessive noise or other interference, or by long distances between devices and receivers. Up to 4 repeaters can be installed per alarm system.

The WS4920 is compatible with all DSC 433 MHz one-way wireless transmitters, receivers and alarm panels. It can also be used with 2-way alarm panels, but only for 1-way devices.

Specifications

- Temperature range: 0°C to +50°C (32°F-122°F)
- Humidity (Max): 5% - 93% R.H. non condensing
- Transformer: 16VAC, 20VA
- Battery backup time: 24 hours
- Battery charging rate: 80% within 24 hours
- Operating frequency: 433.92 MHz
- Dimensions: H6.96, W4.47, D1.33 in.
- Weight: 2 lb.

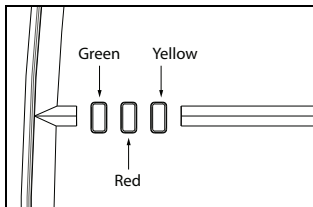
Unpacking

Ensure your package includes the following:

- One WS4920
- One direct plug-in transformer (kit dependant)
- Mounting hardware pack, including plastic wall plugs and screws
- Installation instructions

Controls and Indicators

The WS4920 has three LEDs on the front used to communicate information.

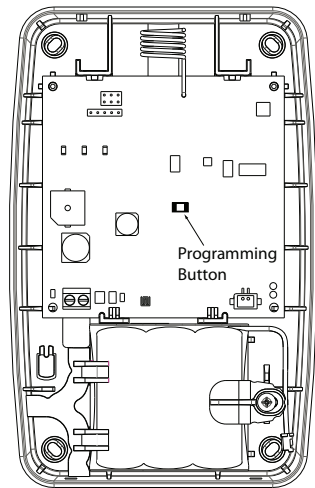


The LEDs indicate the following:

LED	Normal Mode (cover on)	Installer Mode (cover off)
Green	On: AC present Flashing: No AC, battery good Off: No AC, low or dead battery	1 flash: Enrolled Flashing: Placement test active
Red	On: Battery not connected Flashing: Low battery Off: Battery good (if AC on)	Flashing: Zone not enrolled
Yellow	On: RF jam present Off: No RF jam	On: Receiver placement test "bad" Off: Receiver placement test "good"

In addition, the WS4920 has an internal Programming button to place the repeater into

Enroll/Placement modes. It also includes a jumper to prevent RF jam troubles from being sent to the panel. When the jumper is open, RF jam troubles are not transmitted.



Installation

Install the WS4920 in the following order:

- A. Temporarily mount in preferred location
- B. Connect power (battery first then AC)
- C. Receiver placement test (detects interference between repeater and wireless devices)

- D. Enroll with alarm panel
- E. Placement test with alarm panel (Detects interference between repeater and panel)
- F. Enroll/Placement test wireless devices with repeater
- G. Permanently mount WS4920.

NOTE: When enrolling and placement testing the WS4920 with the alarm panel, refer to the panel installation instructions for the appropriate programming sections.

A: Temporarily Mount WS4920

Select a suitable location for the repeater. Use the following list as a guide:

- Locate device near a power outlet
- Location should be free from vibration and shock
- Mount on a flat, stable surface
- Ideal location is mid-way between the wireless transmitter and receiver

Do not permanently mount the repeater until it has been placement tested.

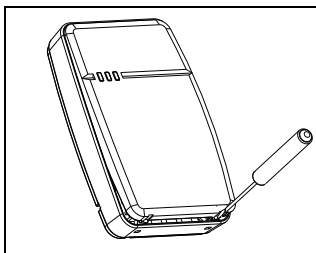
Temporarily mount the unit using tape or other non-permanent method. If the selected location fails the placement test, the device must be repositioned.

B: Connect Power

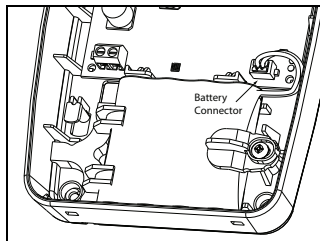
Connect back-up battery first then AC.

To connect the battery:

1. Gently pry front cover from chassis using small slotted screwdriver in holes provided.



2. Connect battery cable to connector on PC board.

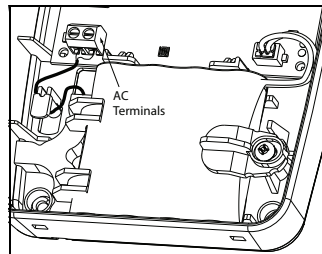


NOTE: Low Battery Transmission Delay programming option (section 377 on alarm panel) must be no more than 1 day as battery backup time is 24 hours.

To connect the AC adaptor:

1. Run AC wire through wiring channel on back of repeater and pass through hole in chassis.
2. Connect AC wires to terminals on PC board.
3. Route wire around retaining bracket to secure.

4. Plug AC adaptor into wall outlet.



C: Placement Testing the WS4920 Receiver

Receiver placement test ensures the WS4920 is located in an area with low noise and interference and can successfully receive signals from one-way wireless devices.

To perform a Receiver Placement test:

1. Press and hold Programming button for 3 seconds to enter Programming mode. The "Mode Entered" tone sounds. Receiver Placement Test is continuously active until programming mode is exited, times out or the cover is put back on the unit.
2. If RF traffic level or noise floor level is too high, yellow LED turns on. If this occurs, reposition WS4920 until yellow LED turns off.
3. To exit Enroll/Placement mode, press Programming button again for 3 seconds or place cover back on WS4920. The "Mode Exited" tone sounds.

D: Enrolling the WS4920

The WS4920 has two Electronic serial numbers (ESN) that must be entered into the alarm panel during enrollment. The first communicates supervisory and tamper status. The second identifies battery status (see note below).

To quick enroll the WS4920 (available on selected alarm panels):

1. Enter Wireless Enrollment mode on alarm panel (see panel installation instructions).
2. Tamper WS4920 to transmit first ESN.
3. Confirm ESN on alarm panel. The panel prompts for zone number.
4. Select and accept zone number for repeater.
5. Press Programming button on WS4920 to transmit second ESN.
6. Confirm ESN on alarm panel and select zone when prompted. Once zone is confirmed, WS4920 is enrolled.

To manually enroll the WS4920, consult the alarm panel installation manual.

NOTE: *Disable tamper transmission programming (options ([330]-[336] on control panel) for the second zone. This prevents low battery troubles/restores, caused by momentary AC loss, from being reported to the monitoring station. A tamper is logged in the event buffer. Both zones should be programmed as a non-alarm zone type.*

E: Placement Testing the WS4920

For optimal performance between the WS4920 and the alarm panel, the repeater should be located in an area of low RF interference.

To test the RF link between the WS4920 and the alarm panel:

1. Place alarm panel into placement test (see panel installation instructions) and select zone where first serial number is enrolled.
2. Tamper the WS4920.
 - If alarm panel receives a strong signal, the panel squawks the siren once and "Location is Good" is displayed on alarm keypad.
 - If alarm panel receives a weak signal, the panel squawks the siren three times and "Location is Bad" is displayed on alarm keypad.
3. If alarm system indicates no response, reposition WS4920 and repeat test. Repeater should only be placed in a location where multiple good results are received.

F: Quick Enroll/Placement Testing Devices

Up to 164 1-way wireless devices can be enrolled on the WS4920. During the first 4 hours of power up, the WS4920 can be placed into Enroll/Placement test modes. After the 4 hour time-out, access to these modes is denied and the unit must be powered up again to enter Enroll/Placement mode.

To both enroll and placement test a device at the same time:

1. Press and hold Programming button for 3 seconds. "Mode Entered" tone sounds. The WS4920 is now in Enroll/Programming mode.
2. Trip and restore zone to be enrolled 3 times:

- Door and window contact open/close or tamper/restore
 - PIR and other stationary devices tamper/restore
 - Panic pendant 3 to 4 button presses
 - Wireless key 3 separate button presses
3. Once repeater has received signal from zone, Green LED lights for 1 second and sounder emits "Zone Enrolled" tone.

NOTE:

- If another zone is tripped during the enroll sequence, the enroll process must be restarted.
 - A repeater can not enroll another repeater.
 - Stationary (permanently mounted) devices should only be enrolled on one repeater. The only exception is in Residential Fire Installations, where smoke detectors must be enrolled with at least 2 repeaters.
 - Fobs and panic pendants may be enrolled with multiple repeaters.
 - If an enrollment is attempted after all 164 device slots have been filled, the repeater emits the "Error" tone to indicate that no further devices may be enrolled.
4. After zone is enrolled, trip zone again to perform placement test. Green LED flashes if signal is received.
 - If "GOOD Zone Placement" tone sounds, device location is satisfactory and unit may be permanently mounted.

NOTE: *If the repeater tone can not be heard while testing the device, set the alarm panel into place-*

ment test mode using the first repeater serial number. The repeater placement test results are sounded through the alarm panel siren.

- If “BAD Zone Placement” tone sounds, reposition device and trip zone again. Continue until “GOOD Zone Placement” tone sounds.

NOTE: Although good results may be obtained on the repeater, bad results are still possible from the alarm panel due to collisions.

5. Use above procedure to enroll and placement test other zones.
6. To exit, press Programming button again for 3 seconds or place cover back on WS4920. “Mode Exited” tone sounds.

Global Placement Testing Devices

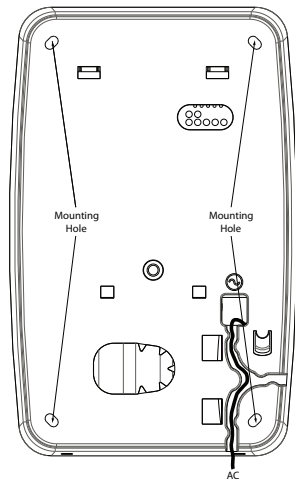
To placement test a 1-way wireless device after the initial enroll/ placement test process:

1. Press and hold Programming button for 3 seconds. “Mode Entered” tone sounds. The WS4920 is now in Global Placement Test mode. Each zone enrolled on repeater gives placement test result when tripped.
 - If “GOOD Zone Placement” tone sounds, device location is satisfactory and unit may be permanently mounted.
 - If “BAD Zone Placement” tone sounds, reposition device and trip zone again. Continue until “GOOD Zone Placement” tone sounds.
2. To exit, press Programming button again for 3 seconds or place cover back on the WS4920. “Mode Exited” tone sounds.

G: Mounting the WS4920

Permanently mount the WS4920 only after completing multiple successful placement tests. To mount the WS4920:

1. Ensure AC wire is run through channel on back of repeater.



2. Remove front cover and secure unit to wall through mounting holes using screws provided. Use all 4 screws.
3. Place cover back on WS4920.
4. Plug AC adaptor into unswitched AC outlet.

Restoring the WS4920 to Factory Defaults

To restore factory default settings:

1. Within 1 minute of power up, press and hold Programming button for 10 seconds. Sounder beeps after first second to indicate WS4920 is in Installer mode. After 10 seconds, Repeater emits long tone and all LEDs light.
2. Release Programming button and immediately press and hold again for 10 seconds. After 10 seconds, WS4920 emits a long tone and all three LED's flash.

NOTE: The second button press must occur within 30 seconds of the first or the WS4920 will exit Enroll/Placement mode.

3. WS4920 beeps three times indicating Installer mode exit. If installer mode exits before the reset is complete, due either to time-out or tamper, repeat the reset procedure.

Replacing the Battery

Replace the backup battery when it no longer holds its charge.

To replace the battery:

1. Disconnect WS4920 from AC.
2. Remove front cover from device.
3. Disconnect battery cable from connector.
4. Loosen screw on battery retention arm and rotate arm aside.
5. Lift battery out of holder and insert new one.
6. Reposition retention arm and tighten screw.
7. Snap front cover back into place.
8. Re-connect WS4920 to AC.

Limited Warranty

Digital Security Controls warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

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Warning: Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected. Important Information: Changes or modifications not expressly approved by Digital Security Controls could void the user's authority to operate this equipment.

FCC Compliance Statement

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This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock # 004-000-00345-4. IMPORTANT - READ CAREFULLY: DSC Software purchased with or without Products and Components is copyrighted and is purchased under the following license terms:

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This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IC:160A-WS4920

The term IC before the radio certification number signifies that the Industry Canada technical specifications were met.

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