

IDS Xwave 8 Channel Standalone Receiver Manual



THANK YOU FOR CHOOSING IDS TO PROTECT YOU

Congratulations on your purchase of the IDS Xwave 8 channel standalone receiver. IDS systems are powerful, versatile and highly configurable security systems, which should be installed by a professionally trained installer.

Please read the manual completely before attempting to install the receiver. For more information visit www.idsprotect.com

Features

- Eight Xwave wireless devices can be taught to the receiver.
- Each device is monitored for tamper, battery low and supervision.
- Eight normally open (NO), dry contact outputs.
- 3 additional outputs, supervision, low battery and tamper.
- LED displays for zone violations, tamper, low battery and loss of supervision indication.
- RF jam detection
- Signal strength test

Diagram

Figure 1: Xwave Rx PCB

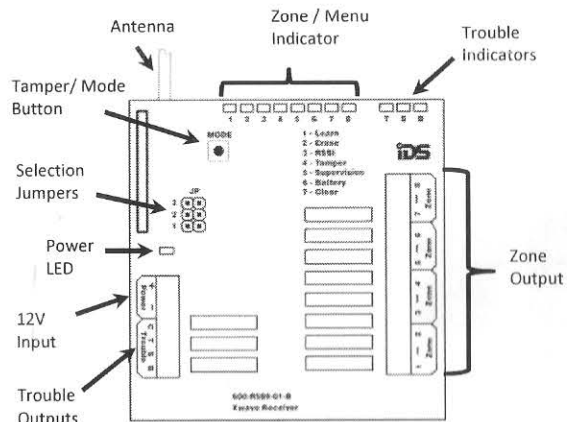
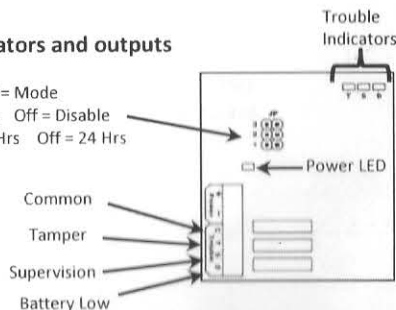


Figure 2: Trouble indicators and outputs

J3 On = Tamper Off = Mode
 J2 RF Jam On = Enable Off = Disable
 J1 Supervision On = 3 Hrs Off = 24 Hrs



Physical Installation

1. Mount the wireless receiver as high as possible away from any metal objects that could hinder the signals from reaching the antenna.
2. Connect each zone output to a zone on the alarm panel remembering to connect the end of line resistor across the zone as required.
3. Connect each of the three trouble outputs to a separate zone on the alarm panel to monitor each of the trouble conditions, if required.
4. Select the supervision time between supervision signals being received from the detectors. (Every 3 Hrs, J1 on (Default & recommended), every 24 hours J1 off.)
5. To monitor RF Jamming short J3 and zone 8 becomes the RF Jamming output.
Note: RF jamming will take preference and if a detector is learnt into zone 8 it will no longer function.
6. Connect the receiver to a 12 volt direct current source.

Receiver Operation

For ease of use two banks of LEDs have been provided to indicate zone violations/Menu options and trouble conditions.

Zone/Menu Indicators

The zone LEDs double up to indicate zone triggers and to display which menu option has been chosen when adding, deleting, etc.

Each zone has a LED associated to it, to indicate when it has been triggered.

Zone LEDs also indicate what mode the receiver is in and diagnostic information, which will be covered under the relevant options.

Menu

Note: Remove J3 to gain access to the mode menu

The menu consists of seven options and to access the menu press and hold the mode button down. By holding the button down the LEDs will scroll through all eight LEDs. To access a menu option release the mode button when the LED corresponding to the option required is on.

Note: If the receiver is left in the menu it will return to normal mode after 2 minutes.

LED 1: Learn Mode

This option is to teach a device to a zone.

1. Press and hold the mode button until the Learn LED is on then release.
2. Press the mode button once for zone 1, press it again for zone 2, etc.

Note: When a zone is entered the LED will be either ON indicating the zone and no device learnt into it or flashing to indicate the zone has a device taught into it.

3. When you have reached the zone required press the tamper switch on the device to teach the device to the zone. When taught, all LEDs will flash to indicate that the device has been saved into memory.

Note: Only a single wireless Xwave device can be taught to a zone

4. Press the mode button to go to the next zone and repeat step 3 or press repeatedly to scroll through all remaining zones and exit Learn mode.

LED 2: Erase Mode

This option is to delete a device from a zone.

1. Press and hold the mode button until the Erase LED, zone 2 LED, is on then release.
2. Press the mode button once for zone 1, press again for zone 2, etc.

Note: When a zone is entered the LED will be either ON, indicating the zone entered and no device taught to it or flashing to indicate the zone entered and that a device has been taught to the zone.

3. When you have reached the zone required wait 5 seconds to delete the device from the zone. The zone LED will stop flashing but remain ON
4. Press the mode button to go to the next zone and repeat step 3 or press repeatedly to scroll through all remaining zones and exit Erase mode.

LED 3: Signal Strength

When installing wireless devices it is always good practice to test the signal strength of the device from the position of installation before securing it.

To enter into signal strength mode:

1. Press and hold the mode button down until RSSI, zone 3, LED lights up and then release the mode button.
2. Press the mode button once for zone 1, again for zone 2, etc. until the required zone has been reached.
3. Walk in front of the device while someone watches the zone LEDs. The LEDs will light up from the left to the right, zone 1 being weak to zone 8 being strong, depending on the signal strength.

Figure 3: Weak Signal



If the signal strength is weak please change the position of the detector until a better signal is achieved.

Figure 4: Good Signal



Signal strength should always be 4 and above.

Note: Always try and get the best signal strength possible.

LED 4: Tamper Trouble Memory

This menu option stores any tampers that have been registered and not cleared. If the tamper condition is cleared at the device and the tamper restore signal is received by the Xwave standalone receiver the tamper condition will be cleared from memory

To access the tamper memory:

1. Press and hold the mode button until zone LED 4, Tamper memory, comes on and then release the mode button.
2. The tamper LED will come on and the LEDs of the zones that registered the tamper will come on.

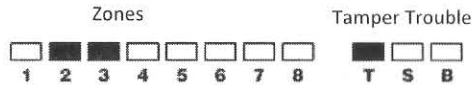


Fig 5: Tamper Trouble Condition

3. To exit tamper mode press and hold the mode button and scroll through all the other zone LEDs until no LEDs are left on

LED 5: Supervision Trouble Memory

Any supervision failures not cleared will be displayed when in supervision trouble view.

Supervision trouble conditions are displayed if the wireless devices have not checked in with the receiver in the time selected by J1



Fig 6: Supervision Time Jumper Selector

Note: Make sure the devices are set to the same supervision time or less

To access the Supervision memory:

1. Press and hold the mode button until zone LED 5, Supervision memory, comes on.
2. The Supervision LED will come on and the LEDs of the zones that did not check-in on time will come on

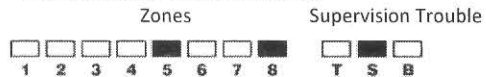


Fig 7: Supervision Trouble Condition

To exit supervision view mode press and hold the mode button and scroll through the other entire zone LEDs until no LEDs are left on.

LED 6: Battery Low Trouble Memory

When a device registers a battery low condition, the receiver will hold that information until a battery restore signal is received.

To access the battery low memory:

1. Press and hold the mode button until zone LED 6, battery low view, comes on
2. The low battery LED will come on and the LEDs of the zones that registered the battery low will come on

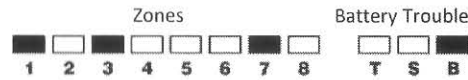


Fig 8: Low Battery Trouble Condition

3. To exit low battery mode press and hold the mode button and scroll through all the other zone LEDs until no LEDs are left on

LED 7: Clear memory

This mode will clear all devices that have registered a trouble condition from the receiver's memory even if a restoral message has not been received.

1. Press and hold the mode button until zone LED 7, Clear troubles, comes on
2. Wait five seconds
3. Exit by pressing the mode button until all zone LEDs are off

RF Jam Detection

The Xwave receiver monitors the 433Mhz frequency for any signals that are strong enough to interfere with signals from devices, for a continuous 20 seconds. If a strong continuous signal is detected a RF jam condition will be triggered via zone 8.

1. Place a jumper on J2



Fig 9: RF Jam Monitoring

Note: When enabled zone 8 will be used as the RF jam detection output and not a device zone output.

Technical Data

Input Voltage: 12.5V (10V-14V)
Current: 200mA Max
Physical Size (mm): 125 x 125mm
Frequency: 433.92MHz
Transmission Distance: 100m (Line of sight)
Modulation Type: OOK/ASK
Operating Temperature: -10°C, +50°C

Wireless Devices

The following wireless devices can be added to the Xwave 8 Channel Standalone Receiver. Please visit: www.idsprotect.com for more information



Indoor Detectors



OTEX WIRELESS INDOOR
360° PIR 862-01-WFX-360-1B

OTEX WIRELESS
INDOOR PIR
862-01-WNX-40PI-T(C)



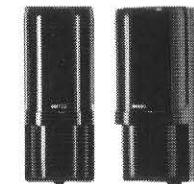
Outdoor Detectors



OTEX WIRELESS OUTDOOR COMPACT
DETECTOR
862-01-FTN-R

OTEX WIRELESS OUTDOOR COMPACT
DETECTOR WITH ANTI MASK
862-01-FTN-RAM

OUTDOOR PIR DETECTOR FOR
BUILDING PERIMETER
862-01-BX80-NR



OTEX 30M DUAL INFRARED BEAM
862-01-AX-100TFRBEC

OTEX 60M DUAL INFRARED BEAM
862-01-AX-200TFRBEC

OTEX OUTDOOR WIRELESS PIR -
862-01-VXI-R

OTEX OUTDOOR WIRELESS PIR -
862-01-VXI-RAM With Anti Masking

OTEX OUTDOOR WIRELESS PIR -
862-01-VXI-RDAM-X5



OTEX WIRELESS OUTDOOR HIGH
MOUNT DETECTOR WITH ANTI
MASKING
862-01-HX-40RAMC
862-01-HX-40NRAM
862-01-HX-80NRAM