1100D Wireless Receiver

Description

The 1100D Wireless Receiver provides up to 16 wireless zones for XRSuper6 and XR20 Command Processor™ panels and up to 32 wireless zones (28 zones using one keypad) for XR40 Command Processor™ panels. The 1100D is compatible with all DMP wireless devices. The 1100D provides two-way, supervised communication using 900 MHz frequency hopping-spread-spectrum technology. The receiver and housing easily mount near the panel enclosure or in a remote location.

What is Included

The 1100D Wireless Receiver includes the following items:

- One 1100D Wireless Receiver
- One 300-44 Panel to Receiver Cable
- Hardware pack

Compatibility

The 1100D Wireless Receiver is compatible with the XRSuper6, XR20, and XR40 Command Processor™ panels using firmware Version 300 or higher. No specific receiver programming is required. Once installed a panel programmed with wireless information will automatically recognize the wireless receiver.

Installing the 1100D Wireless Receiver

Choose an optimum location to mount the receiver. The 1100D Wireless Receiver is typically mounted above the XRSuper6/XR20/XR40 panel enclosure or at a distance not to exceed 500 feet from the panel. Install receivers away from large metal objects. Mounting the receiver on metal surfaces impairs performance. Do not used shielded wire between the panel and receiver.

Remove the cover from the plastic housing by squeezing both sides toward each other. Secure the receiver to the wall in the desired location using the supplied screws. Snap the cover back on the unit. The panel will immediately recognize the 1100D Receiver.

FCC Note: The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons. It must not be co-located or operated in conjunction with any other antenna or transmitter.
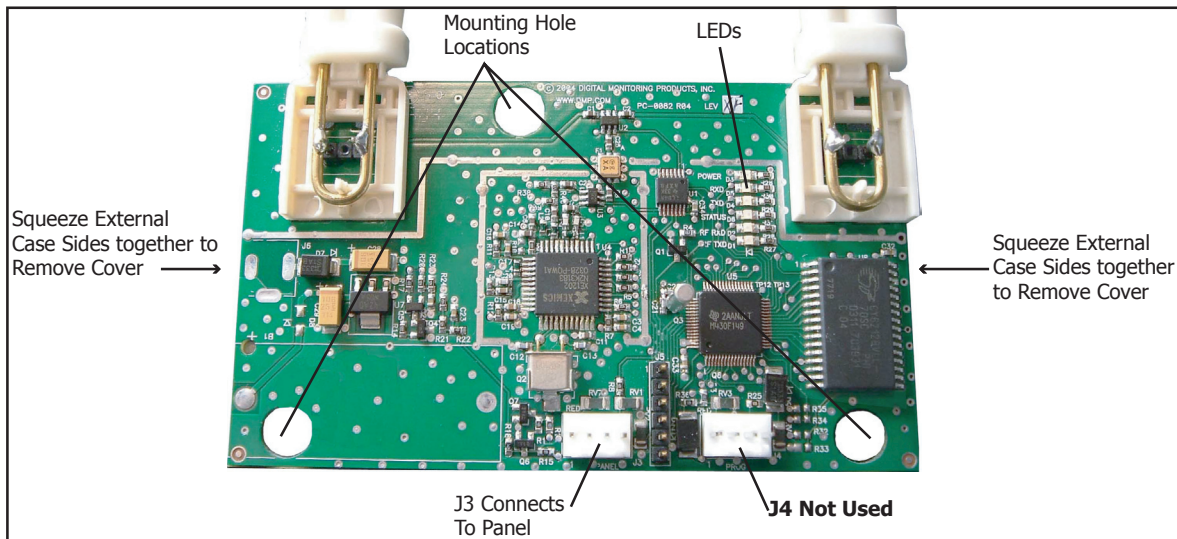

Figure 1: Receiver PCB

1100D Receiver Operation

The 1100D receiver automatically sends the panel house code to wireless transmitters when the unique transmitter serial number is programmed into the panel. The house code identifies the panel, receiver, and transmitters to each other. The receiver only listens for transmissions using the specified house code and/or programmed transmitter serial number.
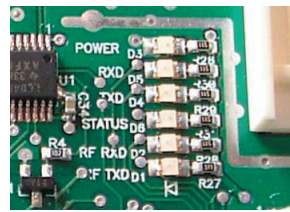
Note: When setting up a wireless system, it is recommended to program zones and connect the receiver before installing batteries in the transmitters.

Transmitters can be programmed for supervised or unsupervised operation. When programmed as supervised, the transmitter must communicate with the receiver within the programmed number of minutes. If the transmitter fails to communicate, the panel displays a missing condition.

Note: When a receiver is installed, powered up, or the panel is reset, the supervision time for transmitters is reset. If the receiver has been powered down for more than one hour, wireless transmitters may take up to an additional hour to send a supervision message unless tripped, tampered, or powered up. This operation extends battery life for transmitters. A missing message may display on the keypad until the transmitter sends a supervision message.

LED Operation

Six LEDs display receiver operation and activity. Refer to the table below as required.

PCB LEDs	Label	Operation
	POWER	Steady green to indicate there is power to the receiver.
	RXD	Flashes yellow to indicate data is being received from the panel.
	TXD	Flashes green to indicate data is being sent to the panel.
	STATUS	Steady red to indicate memory upload. Off when upload is complete.
	RF RXD	Flashes yellow to indicate data is being received from a transmitter.
	RF TXD	Flashes green to indicate data is being sent to a transmitter.

Keypad Bus Wiring

The 1100D Wireless Receiver easily interfaces with the XRSuper6, XR20, or XR40 Command Processor™ panels using the keypad bus.

Harness Connection

Connect the supplied 4-wire harness from the 1100D Wireless Receiver to the keypad bus terminals 7, 8, 9, and 10. Connect the other end of the 4-wire harness to J3 on the 1100D Wireless Receiver PCB. Figure 2 shows a sample XRSuper6/XR20/XR40 panel keypad bus terminal wired to the 1100D Wireless Receiver.
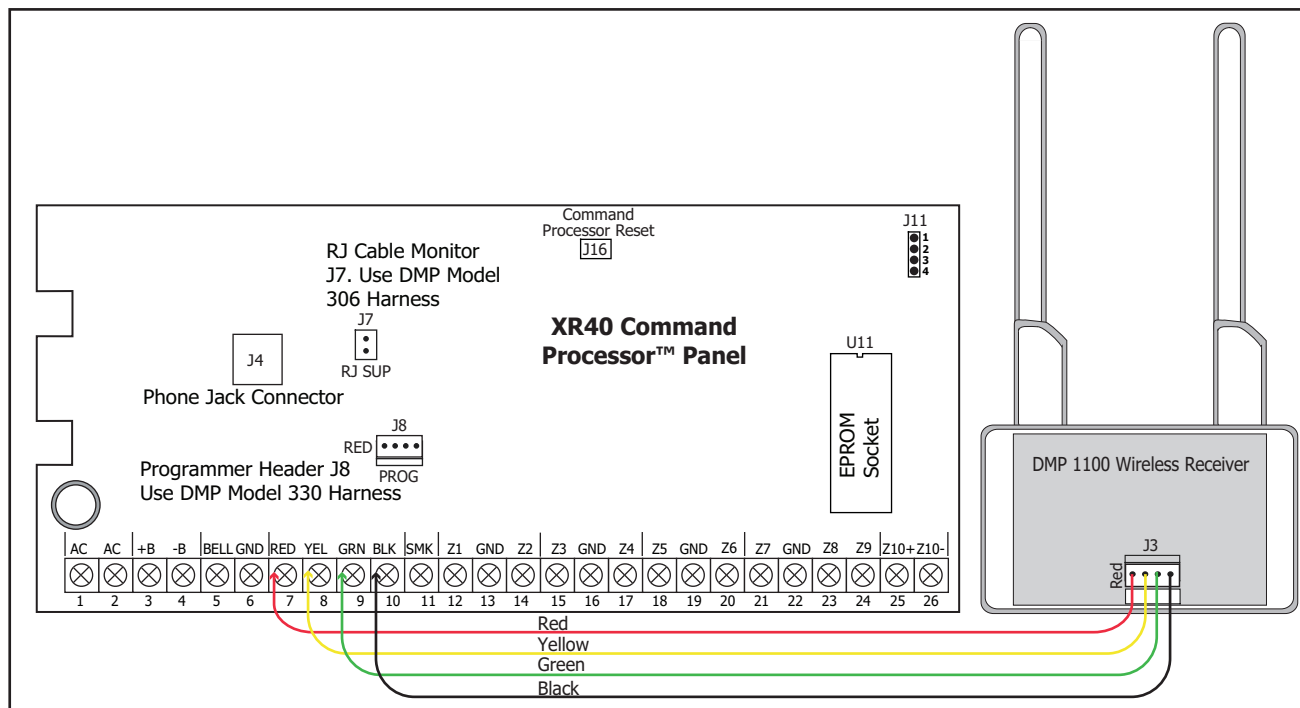

Figure 2: XRSuper6/XR20/XR40 Keypad Bus Wiring

Zone Configuration

Refer to the XRSuper6/XR20/XR40 Programming Guide (LT-0305) for complete wireless programming information.

Note: When any wireless input zone for a particular address is programmed (Ex: 11-14 = Addr 1), the 1100D responds to the panel for this address. Other devices, such as keypads or hardwired zone expanders, cannot use this address. Zones connected directly to the panel cannot be wireless.

Keypad Address	Zone Numbers		
	XRSuper6	XR20	XR40
1	7-10	11-14	11-14
2	21-24	21-24	21-24
3	31-34	31-34	31-34
4	41-44	41-44	41-44
5	*	*	51-54
6	N/A	N/A	61-64
7	N/A	N/A	71-74
8	N/A	N/A	81-84
* Note: Address 5 can be used with unsupervised keypads. This allows all 16 zones to be used by wireless transmitters.			

FCC Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Specifications

Operating Voltage	12 VDC Nominal
Current Draw	40mA
Dimensions	
Receiver Housing	4.65" L x 3.1" W x 1.4" H
Antennas	8.6" H
Color	White
Housing Material	Flame retardant ABS

Patents

Patent(s) Pending

Listings and Approvals

FCC Part 15 Registration ID CCK1100

DMP
Digital Monitoring Products

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