The DXR-702 is a two-channel digital receiver with two isolated relay outputs designed for use with Linear's DX Format transmitters. This receiver can be used in a variety of remote control applications. When the receiver detects a signal from a transmitter programmed into its memory, the appropriate relay output activates. The relays have four optional output configurations. When the relays are set to latch, the receiver outputs will follow the open/closed door status sent from DXT-31 door/window transmitters.

In a typical installation, the receiver is connected to an alarm control panel, door strike, camera, high current relay or some other devices. Transmitters are used to activate or control the devices. The receiver should be mounted with the supplied mounting bracket indoors or outside a weather resistant non-metallic housing.

The digital DX code format features over a million possible codes. The DX transmitters are precoded at the factory to a unique code, so no field coding is required. For versatility, any transmitter can be programmed into any receiver channel. Receivers must be programmed to the transmitter’s code before any transmitter can be programmed into any receiver channel. The transmitters can be split in any number between the two receiver channels.

Receiver channel two is a special channel. If channel two memory is empty, with no transmitters programmed into it, it will report low battery signals from any channel one transmitters capable of sending them. When a low battery transmission is received, the channel two relay will latch, regardless of how the option jumpers are set. The relay will remain engaged until the channel two program button is pressed. The low transmitter batteries should be replaced before resetting the relay.

The unit can be powered from a 11-17 VDC or 12-16 VAC power source. The relays normally open and normally closed contacts can switch up to 1 amp at 24 volts AC/DC.

Cutting jumpers select how the relays activate. Four settings are possible. Both relays will function with the same option. The factory setting causes the relays to engage for four seconds each activation. Optionally, the relays can be set for one second, toggle on with one activation then off with the next, or latch engaged for door status until reset.
**SYSTEM TESTING**

1. Activate each transmitter, one at a time.
2. Listen for relay click in the receiver.
3. Verify that the device connected to the receiver responds and that the proper channel activates.
4. Test portable transmitters in various locations to determine system performance.

**ERASING MEMORY**

1. Press program button for the channel to erase and continue to hold it through the count of the transmitter.
2. Continue to hold the button after the count until the indicator blinks once for Channel One, twice for Channel Two (about five seconds after the count).
3. All transmitters programmed into that channel will be erased.

**FUNCTION** | **PROGRAM BUTTON** | **PROGRAM INDICATOR** | **MULTI-CHANNEL TRANSMITTER NOTE:**
---|---|---|---
Normal Operation | Releases latched relay for Channel 1 or 2 | Lights when transmitter is received; flashes when interference is received | Each receiver channel can only be programmed to activate from a single button on a multi-channel transmitter; learning the same button into both channels activates channel one only.
Programming Memory | Press and release for Channel 1 or 2 | Lights for 3 seconds for programming | 
Checking Memory | Press for Channel 1 or 2 until blink and release | Blinks the number of transmitters in channel memory | 
Erasing Memory | For Channel 1 or 2, press and hold through the count and hold for 5 seconds more | After blinking count a pause then a single blink as memory is erased (double blink on Channel 2) | 

**TERMINAL CONNECTIONS**

**DXR-702 TERMINALS**

ALARM PANEL CONNECTION WITH DOOR STATUS

ALARM PANEL CONNECTION WITH LOW BATTERY REPORTING

LATCHING RELAY OPTION

4 SECOND RELAY OPTION

**DXR-702 TERMINALS**

ALARM TROUBLE

ALARM LOOP

AUX. POWER

NOTE: LATCHING MODE ALLOWS PANEL TO SHOW DXR-702 STATUS

**DXR-702 TERMINALS**

ALARM TROUBLE

ALARM LOOP

AUX. POWER

NOTE: CHANNEL 2 MUST BE EMPTY TO REPORT LOW BATTERY

**DXR-702 TERMINALS**

ALARM TROUBLE

ALARM LOOP

AUX. POWER

NOTE: TRANSMITTERS WILL AUTO RESTORE AFTER 1 SECOND

**BUTTON AND INDICATOR FUNCTIONS**

**PROGRAMMING MEMORY**

1. Press and release program button for the desired channel.
2. Program indicator will light for 3 seconds if there is room in that channel's memory for another transmitter (32 transmitters maximum total allowed between both channels in the receiver).
3. Within 3 seconds, send signal from transmitter. Program indicator will flicker as signal is received.
4. Repeat the above three steps for each additional transmitter.

**CHECKING MEMORY**

After pushing the receiver's programming button, you only have 3 seconds to send a signal before programming mode stops.

Push until indicator lights.

Note: Do not continue to press button or memory will be erased.

**LINEAR LIMITED WARRANTY**

This Linear product is warranted against defects in material and workmanship for twelve (12) months. The Warranty Expiration Date is labeled on the product. This warranty extends only to wholesale customers who buy direct from Linear or through Linear's normal distribution channels. Linear does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. There are no obligations or liabilities on the part of Linear Corporation for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until Warranty Expiration Date as labeled on the product. This Linear Corporation Warranty is in lieu of all other warranties express or implied. All products returned for warranty service require a Return Product Authorization (RPA#). Contact Linear Technical Service at 1-800-421-1587 for an RPA#.

For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.

**IMPORTANT !!!**

Linear radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed:

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications to the device may void FCC compliance.
- INFREQUENTLY USED RADIO LINKS SHOULD BE TESTED REGULARLY TO PROTECT AGAINST UNDETECTED INTERFERENCE OR FAULT.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.

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