Linear SECUR/TY ®

DXSR 1500 SERIES
SUPERVISED RECEIVERS
The ultimate receivers
for adding
wireless security.

Dual diversity superheterodyne technology.

Up to 1,500 foot line-of-sight range.

4 and 8-channel models for North American and European markets.

Compatibility with nearly 40 different Linear DX and DXS series transmitters.

There are a lot of reasons to add wireless functions to a hardwire security panel. With Linear's DXSR 1500 series receivers, there are also plenty of incentives. Security installers can offer many valuable enhancements to the alarm systems of present customers. And they can attract more new business by offering a state-of-the-art hybrid product.

What makes DXSR 1500 series receivers so advantageous is dual diversity superheterodyne technology that makes possible a measured line-of-sight range of up to 1,500 feet. Detached garages, poolhouses, and other outbuildings that were previously hard or impossible to protect are now easily tied in using Linear's wireless sensors. Remote controls and panic button functions can be added via Linear personal transmitters in any style. Collectively, our DX and DXS series represents industry's most extensive line — there are 39 models to choose from, including pendants, keyrings, handhelds, wristbands, door/windows, PIRs, smokes, glass breaks, and bill traps. With our 8-channel DXSR 1508 receivers, up to 32 transmitters can be distributed between channels.

Configuring new wireless security loops is simple, thanks to quick-learn programming, a 7-segment channel display, and the per-channel flexibility of selectable supervision and custom output options. The channel display lights a flashing center dash in Power On and Standby conditions, a channel ID during an Alarm condition, and a decimal point to signal RF activity. Additional outputs include per-channel Alarm, common Low Battery, and common Status, with LED indicators for each. The DXSR 1500 series even comes in a choice of capacities and frequencies: 4-channel or 8-channel models for the United States (315 MHz) or Europe (433.92 MHz).

Creating wireless/hardwire hybrids is easy (and rewarding) with DXSR 1500 series receivers.

Available Models

MODEL	PRODUCT NUMBER	DESCRIPTION
DXSR-1504	SSR00070	4-Channel, 315 MHz, Supervised Receiver (for United States and Canada)
DXSR-1504/EC	SSR00072	4-Channel, 433.92 MHz, Supervised Receiver(for Europe)
DXSR-1508	SSR00071	8-Channel, 315 MHz, Supervised Receiver (for United States and Canada)
DXSR-1508/EC	SSR00073	8-Channel, 433.92 MHz, Supervised Receiver(for Europe)

Compatible Transmitters

Supervised Portable Transmitters, 315 MHz

MODEL	PRODUCT NUMBER	DESCRIPTION
DXS-21	SST00094	Supervised 2-Button, 1-Channel Handheld
DXS-23	SST00095	Supervised 3-Button, 4-Channel Handheld
DXS-25	SST00096	Supervised 5-Button, 8-Channel Handheld
DXS-62	SST00090	Supervised 1-Button, 1-Channel Waterproof
DXS-63	SST00091	Supervised 2-Button, 3-Channel Waterproof

Supervised Stationary Transmitters, 315 MHz

MODEL	PRODUCT NUMBER	DESCRIPTION
DXS-31	SST00073	Supervised Door/Window Transmitter
DXS-54	SST00074	Supervised Passive Infrared Motion Detector
DXS-72	SST00076	Supervised Photoelectric Smoke Detector
DXS-72/K	SST00077	Supervised Photoelectric Smoke Detector (for Canada)
DXS-81	SST00078	Supervised Bill Trap
DXS-91	SSA00015	Supervised Glass Break

Non-Supervised Portable Transmitters, 315 MHz

MODEL	PRODUCT NUMBER	DESCRIPTION
DXT-21	SNT00376	2-Button, 1-Channel Handheld
DXT-23	SNT00377	3-Button, 4-Channel Handheld
DXT-25	SNT00378	5-Button, 8-Channel Handheld
DXT-41	SNT00381	1-Button, 1-Channel Mini/Keyring
DXT-42	SNT00382	2-Button, 3-Channel Mini/Keyring
DXT-61A	SNT00380A	1-Button, 1-Channel Pendant

Non-Supervised Stationary Transmitters, 315 MHz

MODEL	PRODUCT NUMBER	DESCRIPTION
DXT-31	SBT00014	Door/Window Transmitter
DXT-54	SBT00013	Passive Infrared Motion Detector
DXT-72	SNA00356	Photoelectric Smoke Detector
DXT-72/K	SNA00364	Photoelectric Smoke Detector (for Canada)
DXT-81	SNT00383	Bill Trap
DXT-91	SNA00363	Glass Break

Supervised Portable Transmitters, 433.92 MHz (EC Versions)

MODEL	PRODUCT NUMBER	DESCRIPTION
DXS-62/EC	SST00092	Supervised 1-Button, 1-Channel Waterproof
DXS-63/EC	SST00093	Supervised 2-Button, 3-Channel Waterproof

Supervised Stationary Transmitters, 433.92 MHz (EC Versions)

MODEL	PRODUCT NUMBER	DESCRIPTION
DXS-31/EC	SST00085	Supervised Door/Window Transmitter
DXS-54/EC	SST00086	Supervised Passive Infrared Motion Detector
DXS-72/EC	SST00087	Supervised Photoelectric Smoke Detector
DXS-91/EC	SSA00017	Supervised Glass Break

Non-Supervised Portable Transmitters, 433.92 MHz (EC Versions)

MODEL	PRODUCT NUMBER	DESCRIPTION
DXT-21/EC	SNT00389	2-Button, 1-Channel Handheld
DXT-23/EC	SNT00388	3-Button, 4-Channel Handheld
DXT-41/EC	SNT00365	1-Button, 1-Channel Mini/Keyring
DXT-42	SNT00366	2-Button, 3-Channel Mini/Keyring
DXT-61/EC	SNT00391	1-Button, 1-Channel Pendant

Specifications

Number of Channels:
    DXSR-1504; DXSR-1504/EC: 4 channels, supervised
    DXSR-1508; DXSR-1508/EC: 8 channels, supervised
Receiver Type: diversity, dual superheterodyne
Carrier Frequency:
    North American: 315 MHz
    European: 433.92 MHz
Bandwidth: 200 KHz typical
Receiver Sensitivity: -102 dBm typical at each antenna
Data Formats: Linear DX
Modulation: type A1D, PPM (pulse position modulation)
Measured Range: 1,500 feet, typical, with most standard Linear DXT or DXS stationary transmitters
Transmitter Capacity: 32 total with any distribution between channels (note: learning multiple transmitters into any channel will defeat device supervision)
Receiver Outputs:
    DXSR-1504; DXSR-1504/EC: 4 channel Alarm outputs, 1 common Low Battery output, and 1 common Status output
    DXSR-1508; DXSR-1508/EC: 8 channel Alarm outputs, 1 common Low Battery output and 1 common Status output
Output Type:
    Mode: factory set to normally open; can be globally selected as normally closed by internal jumper
    Current Rating: 100 mA maximum per output point
Channel Output Options: 3 output options, field selectable by channel
    Momentary: 3/4-second momentary closure on alarm
    Toggle: alternate alarm action; toggle on, toggle off
    Latch: requires manual reset at the receiver or operates as a follower with door/window transmitters; latches "on" with open (Alarm) condition; latches "off" with closed (Restore) condition
Display Output:
    Channel Display: 7-segment LED indicator; displays flashing center dash in Power On and Standby; displays channel ID during Alarm condition, along with Alarm condition LED; automatically clears when Alarm output restores; displays "P", channel ID, and number of learned transmitters in each channel during programming mode
    RF Activity: indicated by decimal point on 7-segment display; indicates radio receiver activity; flashes with received data
    Alarm Condition: 3 LED indicators — Alarm, Low Battery, and Status
Operating Voltage: 10.2 to 14.4 Vdc or 12 to 16 Vac
Operating Current:
    Standby: 30 mA
    Alarm: up to 120 mA
Operating Temperature: 0 to 60°C (32 to 120°F)

Dimensions: 7.25 in W x 5.00 in H x 1.00 in D (185.00 x 127.00 x 25.40 mm)
Space Required for Installation: 7.50 in W x 14.0 in H
Antennae: 2 - 9.50 in wire whip antennas (supplied)
Mounting Hardware: 4 - #6 1.25 in wood screws (supplied)
Receiver Operating Parameters:
    Status Supervision: monitored on each channel for hourly status transmissions; reports status exception if no transmissions received within last 8-hour time period; 1 common Status output provided for all channels; 7-segment display indicates channel where violation occurred; exception set and cleared by channel
    Enable Options: Status supervision can be enabled on per channel basis by cutting appropriate jumper per channel; factory default is disabled (note: with Status supervision monitoring, more than one transmitter should not be learned per channel)
    Low Battery Supervision: monitors each transmitter for Low Battery alarm; reports if any learned transmitter Low Battery signal is received; one common Low Battery alarm output provided for all transmitters; 7-segment display indicates channel where Low Battery occurred; Low Battery set and cleared by individual transmitters; transmitter that has sent Low Battery report must send Good Battery signal to clear Low Battery condition
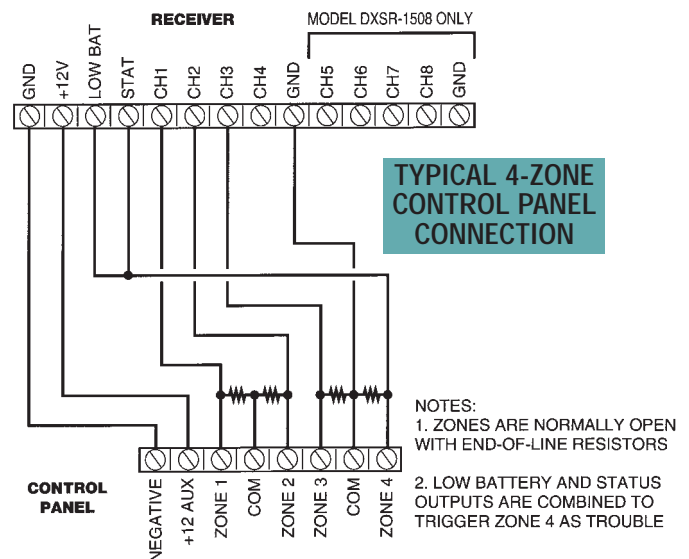   **Program Mode:** enabled by program jumper; remote to enter program mode
    Transmitter Learn: momentary press and release desired Channel Learn button (activate transmitter within 5 seconds to learn it into desired channel)
    Memory Interrogation: hold appropriate channel's Learn button for less than 5 seconds; 7-segment display will indicate number of devices learned into the selected channel
    Memory Erase: hold appropriate channel's Learn button for more than 10 seconds and then release; transmitters learned into that channel will be erased from receiver memory

Specifications subject to change without notice.

TYPICAL 4-ZONE CONTROL PANEL CONNECTION

NOTES:
1. ZONES ARE NORMALLY OPEN WITH END-OF-LINE RESISTORS

2. LOW BATTERY AND STATUS OUTPUTS ARE COMBINED TO TRIGGER ZONE 4 AS TROUBLE

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