

2004 CATALOG



Linear *SECURITY*

CONTENTS



Transmitter/Receiver Compatibility	2
DX Transmitters and DXS Supervised Transmitters	3-8
DX Receivers	9
DXS Supervised Receivers	10-11
DVS Wireless Security	12-14
Emergency Reporting Systems	15-17
SX Supervised Wireless Receiver	18
SX Supervised Transmitters	19-21
Standard Digital Transmitters	22-23
Standard Digital Receivers	24-25
Xtended Range Transmitters	26
Xtended Range Receivers	27
Digital Voice Dialer	28
Access Control Products	29 - 40

OVERVIEW



For over four decades, Linear has been a leader in the development of radio frequency transmitters and receivers for the professional security market. We offer a wide range of wireless add-ons, as well as a variety of complete systems based on these RF links. Whatever you need for creating wireless security can be found inside this catalog — panics, remotes, door/windows, smokes, PIRs, bill traps, glass breaks, plus all the receivers and controllers that support them.

Add to this an extensive line of access control products ranging from simple single-door to integrated multi-door, networked systems.

DX — Performance-enhanced products. DX transmitters utilize optimized pulse position based RF transmission technology. Available 1-, 2-, 4-, and 8-channel receivers support up to 32 quick-learn transmitters. DX supports over one million unique transmitter codes.

DXS — Designates fully supervised models of these same transmitters and receivers. Up to 1,500 feet of range.

DVS-1200, DVS-2400, DUAL-824 — Advanced controls for creating complete security systems using DX and DXS transmitters. The DVS-1200 and DVS-2400 are for totally wireless systems. The DUAL-824 is for wireless/hardwire hybrids. Featuring optional voice prompts and two-way voice communications.

Xtended Range — Industry's best line of mid-range wireless transmitters and receivers. A 10-mile range for remote and unattended applications.

PERS-2400A — UL listed multi-channel medical/emergency reporting system. Available with or without two-way voice capability.

Linear Access Control — A complete line of products tailored to meet the needs of single door/gate projects, as well as multi-door networked systems. Includes simple controller products, as well as custom telephone entry systems, multi-door controllers, and related accessory items, including add-on transmitters and receivers.

TRANSMITTER/RECEIVER COMPATIBILITY

DX

DXT-61A	Pendant DXR-701, DXR-702, DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, PERS-2400A, AL-1
DXT-41	1-Channel Mini DXR-701, DXR-702, DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, PERS-2400A, AL-1
DXT-42	3-Channel Mini DXR-701, DXR-702, DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, PERS-2400A, AL-1
DXT-21	1-Channel Handheld DXR-701, DXR-702, DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, AL-1
DXT-23	4-Channel Handheld DXR-701, DXR-702, DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, AL-1
DXT-25	8-Channel Handheld DXR-701, DXR-702, DXSR-1504, DXSR-1508
DXT-31	Door/Window DXR-701, DXR-702, DXSR-1504, DXSR-1508
DXT-54	Motion Detector DXR-701, DXR-702
DXT-72	Smoke Detector DXR-702
DXT-81	Bill Trap DXR-701, DXR-702

DXS

DXS-21	Supervised 1-Channel Handheld DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, PERS-2400A
DXS-23	Supervised 4-Channel Handheld DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, PERS-2400A
DXS-25	Supervised 8-Channel Handheld DXSR-1504, DXSR-1508
DXS-31	Supervised Door/Window DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, PERS-2400A
DXS-32	Supervised Mini Door/Window DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824
DXS-54	Supervised Motion Detector DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, PERS-2400A
DXS-72	Supervised Smoke Detector DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824, PERS-2400A
DXS-81	Supervised Bill Trap DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824
DXS-10	Supervised Keypad DVS-1200, DVS-2400, DUAL-824
DXS-91	Supervised Glass Break DXSR-1504, DXSR-1508, DVS-1200, DVS-2400, DUAL-824

DXS-62

1-Channel (1-Button) Wristband

DXSR-1504, DXSR-1508, DVS-1200, DVS-2400,
DUAL-824, PERS-2400A, AL-1

DXS-63

1-Channel (2-Button) Wristband

DXSR-1504, DXSR-1508, DVS-1200, DVS-2400,
DUAL-824, PERS-2400A, AL-1

SX

T-90D

Supervised Door/Window

SXR-64A

TX-91

Supervised 3-Channel Handheld

SXR-64A

TX-92

Supervised 6-Channel Handheld

SXR-64A

TX-94

Supervised 15-Channel Handheld

SXR-64A

TMD-90

Supervised Motion Detector

SXR-64A

TGB-96

Supervised Glass Break

SXR-64A

TSD-90A

Supervised Smoke Detector

SXR-64A

ST-23A

Supervised Bill Trap

SXR-64A

LMT-1/303

Supervised Pendant

SXR-64A

MPX-303

Supervised Squeeze Pendant

SXR-64A

STANDARD DIGITAL

ET-1B

Pendant

D-67, D-67F, D-67L, DX-12, D-2R, D-4R, D-8C

ET-2

Mini Pendant

D-67, D-67F, D-67L, DX-12, D-2R, D-4R, D-8C

D-22A

1-Channel Handheld

D-67, D-67F, D-67L, DX-12, D-2R, D-4R, D-8C

D-22B/C/D

2-Channel Handhelds

D-67, D-67F, D-67L, DX-12, D-2R, D-4R, D-8C

D-4B

4-Channel Handheld

D-67, D-67F, D-67L, DX-12, D-2R, D-4R, D-8C

D-21A

N/O Wall Mount

D-67, D-67F, D-67L, DX-12, D-2R, D-4R, D-8C

D-24A

N/C Wall Mount

D-67, D-67F, D-67L, DX-12, D-2R, D-4R, D-8C

D-23R

Bill Trap

D-67, D-67F, D-67L, DX-12, D-2R, D-4R, D-8C

XTENDED RANGE

XT-1

1-Channel Handheld

XR-1, XR-2, XR-16, XR-D

XT-4

4-Channel Handheld

XR-1, XR-2, XR-16, XR-D

XT-1H

1-Channel Handheld

XR-1, XR-2, XR-16, XR-D

XT-2H

3-Channel Handheld

XR-1, XR-2, XR-16, XR-D

XT-4H

4-Channel Handheld

XR-1, XR-2, XR-16, XR-D

DXT-61A

1-Button, 1-Channel
Pendant Transmitter



- Famous “Panic Button” Design
- Includes 30-Inch Neck Chain
- Test/Operate LED

DXT-41

1-Button, 1-Channel



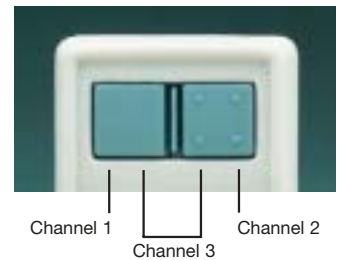
DXT-42

2-Button, 3-Channel



- Long-Life Button Cell Lithium Batteries
- Includes Snap-Action Key Ring
- Two-Button Transmitter Can Be Configured for Fail-Safe Operation

Three channels are possible with the 2-button DXT-42



GENERAL SPECIFICATIONS

DXT-61A

Dimensions:	2.2 in L x 1.42 in W x 0.66 in H (56 x 36 x 17 mm)
Power:	one GP-23 12V alkaline battery (supplied)
Current Consumption:	5 mA average while transmitting
Battery Life:	one year (typical)
Measured Range:	200 feet in open air (four quadrant test)
Accessories:	30-inch neck chain
Operating Frequency:	315 MHz

DXT-41, DXT-42

Dimensions:	
DXT-41, 42	2.25 in L x 1.25 in W x 0.48 in H (57 x 32 x 12 mm) excluding key ring eyelet
DXT-61A	2.2 in L x 1.42 in W x 0.56 in H (56 x 36 x 17 mm)
Power:	
DXT-41, 42	two CR1616, CR1620 or DL1620 3V lithium cells (supplied)
DXT-61A	one G-23 12 V alkaline battery (supplied)
Current Consumption:	5 mA average while transmitting, all devices
Battery Life:	
DXT-41, 42	three years (typical)
DXT-61A	one year
Measured Range:	200 feet in open air (four quadrant test)

Accessories:

DXT-41, 42	snap-action key ring
DXT-61A	30-inch neck chain

Number of Channels:

DXT-41	one channel
DXT-42	three channels, left button, right button, both buttons simultaneously
DXT-61A	one channel
Operating Frequency:	315 MHz

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DXT-61A	SNT00380A	1-Button, 1-Channel Pendant
DXT-41	SNT00381	1-Button, 1-Channel Mini
DXT-42	SNT00382	2-Button, 3-Channel Mini

DXT-21

2-Button, 1-Channel
Handheld Transmitter

DXT-23

3-Button, 4-Channel
Handheld Transmitter

DXT-25

5-Button, 8-Channel
Handheld Transmitter

DXS-21

Supervised, 2-Button, 1-
Channel
Handheld Transmitter

DXS-23

Supervised, 3-Button, 4-
Channel
Handheld Transmitter

DXS-25

Supervised, 5-Button, 8-
Channel



- Unique “Extra” Top Button
- High Visibility LED
- Lithium Battery Powered
- Pocket/Belt Clip Supplied
- Up to 700 Feet of Range
- DXS Version Provides Full RF Supervision — Alarm, Supervisory, Low Battery

Belt Clip



Pocket Clip



Unique Top Button



GENERAL SPECIFICATIONS

Dimensions:	4.2 in L x 1.6 in W x 0.8 in H (107 x 41 x 20 mm)
Power:	two 3V DL-2032 lithium batteries (supplied)
Current Consumption:	7 mA average while transmitting
Battery Life:	five years typical
Measured Range:	500 feet minimum in open air (four quadrant test)
Accessories:	belt clip and pocket clip (supplied)

Number of Channels:

DXT-21, DXS-21	1 channel — top or front
DXT-23, DXS-23	4 channels — top, left, right, or left and right simultaneously (fail-safe mode)
DXT-25, DXS-25	8 channels — all individual buttons on the front of the transmitter (4 channels), plus top and then any front button (4 additional channels)
Operating Frequency:	315 MHz

DXT-31

Door/Window Sensor

DXS-31

Supervised,
Door/Window Sensor

DXS-32

Miniature, Supervised,
Door/Window Sensor



DXT-31, DXS-31

- Accepts N/O or N/C External Devices
- Includes External Magnet
- Includes Mounting Bracket
- Lithium Battery Powered
- DXT Sends Alarm, Restore, Low Battery Reports
- DXS Sends Alarm, Restore, Supervisory, Low Battery Reports

DXS-32

- Ultra-Compact Design
- Includes External Magnet
- Includes Mounting Hardware
- Lithium Battery Powered
- Transmits Alarm, Restore, Supervisory, Low Battery Reports

DXS-31

two 3V DL-2032 lithium batteries (supplied); optional — two 3V DL-2450 lithium batteries for extended life

DXS-32

two 3V DL-2032 lithium batteries (supplied)

Battery Life:

three years (typical); shelf life of up to 10 years

Measured Range:

DXT-31

700 feet in open air with DXR receiver

DXS-31, DXS-32

1,500 feet in open air with DVS-2400 control

Accessories:

DXT-31, DXS-31

mounting hardware including screws, mounting shoe, double-stick tape

DXS-32

mounting hardware including screws

Operating Frequency:

315 MHz

Operating Temperature:

32° to 120°F (0° to 49°C)

GENERAL SPECIFICATIONS

Dimensions:

DXT-31 3.4 in L x 1.6 in W x 1.2 in H (86 x 41 x 30 mm)

DXS-31 3.3 in L x 1.5 in W x 0.88 in H (84 x 38 x 22 mm)

DXS-32 2.25 in L x 0.9 in W x 0.6 in H (57 x 23 x 15 mm)

Power:

DXT-31 two 3V DL-2032 lithium batteries (supplied)

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DXT-21	SNT00376	2-Button, 1-Channel Handheld
DXS-21	SST00094	Supervised 2-Button, 1-Channel Handheld
DXT-23	SNT00377	3-Button, 4-Channel Handheld
DXS-23	SST00095	Supervised 3-Button, 4-Channel Handheld
DXT-25	SNT00378	5-Button, 8-Channel Handheld
DXS-25	SST00096	Supervised 5-Button, 8-Channel Handheld
DXT-31	SBT00014	Door/Window

DXT-54

Passive Infrared Motion Detector

DXS-54

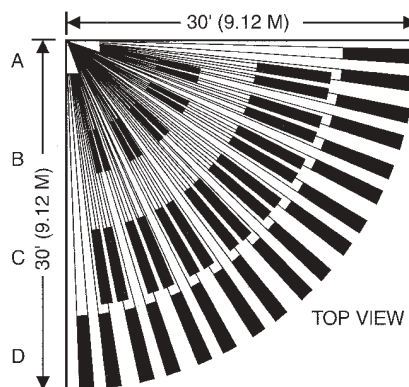
Supervised,
Passive Infrared
Motion Detector



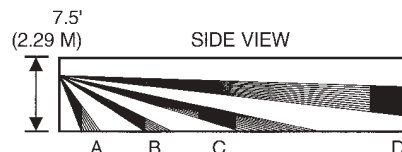
GENERAL SPECIFICATIONS

Dimensions:	3.2 in L x 1.75 in W x 4.4 in H (81 x 44 x 112 mm)
Power:	one 9V alkaline battery (supplied)
Current Consumption:	15 mA transmitting, 4 mA walk test, 8 μ A standby, 15 μ A timer mode
Battery Life:	three years (typical)
Battery Saver Timer:	4-minute software timer, rearms after alarm transmission
Accessories:	mounting hardware, including screws, double-stick tape
Detector:	balanced dual element, pyroelectric
Installed Lens:	standard Fresnel lens, 24 facets, 9 main, 8 intermediate, 5 short, 2 creep
Detection Pattern:	30 feet x 30 feet
PIR Sensitivity:	preset, non-adjustable, pulse count of 3 with 8-second detection window
Operating Frequency:	315 MHz
Measured Range:	
DXT-54	700 feet in open air with DXR receiver
DXS-54	1,500 feet in open air with DVS-2400 control
Code Outputs:	
DXT-54	alarm, low battery
DXS-54	alarm, supervisory, low battery

Detection Pattern



A = CREEP ZONES
B = SHORT RANGE ZONES
C = INTERMEDIATE ZONES
D = MAIN ZONES



- Walk-Test Mode
- Fresnel Lens with 24 Facets Supplied
- Battery Saver Circuitry
- Three-Year Battery Life
- Low-Battery Reporting (DXT-54)
- Alarm, Supervisory, Low-Battery Reporting (DXS-54)

DXT-72

Photoelectric Smoke Detector

DXS-72

Supervised Photoelectric Smoke Detector



- Forward-Scattering Photoelectric Detector
- Built-in 85 dBA Sounder
- Alarm Verification Circuitry
- Alarm, Supervisory, Low Battery, Test Signals (DXS-72)
- UL, CSFM Listed

DXT-81

Bill-Trap

DXS-81

Supervised Bill-Trap



- Low-Battery Reporting Only When Cash Drawer is Open
- Transmit Repeat Feature Ensures Reliability
- Alarm, Restore, Test Transmissions (DXT-81)
- Three Year Battery Life

GENERAL SPECIFICATIONS

DXT-72, DXS-72

Dimensions:	2.5 in H x 6.5 in Dia. (64 x 165 mm)
Power:	two 9V alkaline batteries (supplied)
Battery Life:	three years (two years typical)
Measured Range:	700 feet in open air, one quadrant; 500 feet minimum in open air (four quadrant test)
Accessories:	mounting hardware, including screws, anchors, and double-stick tape
Audible Output:	85 dBA at 10 feet for alarm; blipping output for low battery
Detection Method:	forward-scattering photoelectric-type
Temperature Range:	32° to 120° F (0° to 49° C)
Listings:	UL, CSFM
Operating Frequency:	315 MHz

Code Outputs:

DXT-72	alarm every 20 seconds until smoke clears; low battery, test
DXS-72	alarm every 20 seconds until smoke clears; supervisory, low battery, test

DXT-81, DXS-81

Dimensions:	4.5 in L x 2.4 in W x 0.8 in H (114 x 61 x 20 mm)
--------------------	--

Power:	two 3V DL-2032 lithium batteries (supplied)
Current Consumption:	8 mA average while transmitting, 2 μ A standby
Battery Life:	three years (typical)
Measured Range:	700 feet in open air, one quadrant; 500 feet minimum in open air (four quadrant test)
Accessories:	mounting hardware, double-stick tape
Code Transmissions:	
Alarm:	1-second transmission repeated four times over 1-minute period
Restore:	1-second transmission
Low-Battery Report:	1-second transmission
Test:	transmits continuously as long as test switch remains activated
Operating Frequency:	315 MHz

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DXT-54	SBT00013	Passive Infrared Motion Detector
DXS-54	SST00074	Supervised Passive Infrared Motion Detector
DXT-72	SNA00356	Photoelectric Smoke Detector
DXS-72	SST00076	Supervised Passive Infrared Motion Detector



SUPERVISED TRANSMITTERS

DXS-10

Supervised Remote Keypad



DXS-91

Supervised Glass



- Adds Remote Control to DVS-1200, DVS-2400, and DUAL-824 Security Systems
- Arming, Disarming, and Emergency Alarm Capabilities
- Telephone Style Keypad Plus System Mode Keys
- Wall Mounting or Tabletop Use

- Alarm, Supervisory, and Low Battery Transmissions
- Lithium Battery Powered
- Test, Operate LED
- Shatter Pro Pattern Recognition Technology

GENERAL SPECIFICATIONS

DXS-10

Dimensions:	3.8 in L x 1.25 in W x 3.56 in H (97 x 32 x 90 mm)
Power:	one 9V alkaline battery (supplied)
Battery Life:	three years (typical)
Measured Range:	1,500 feet, open air, with DVS-2400 control panel
Accessories:	all mounting plate hardware (supplied)
Code Outputs:	all keys 0 through 9, plus Emergency Alarm, Fire Alarm, Automation activation, system off/chime, system home, and system away modes, as well as status and low battery
Operating Temperature:	32 to 120°F (0° to 49°C)

DXS-91

Dimensions:	4.25 in L x 1.70 in W x 3.13 in H (108 x 43 x 80 mm)
Power:	two 3V DL-2450 lithium batteries (supplied)

Battery Life:	18 months
Measured Range:	1,000 feet, open air, with DVS-2400 control panel
Code Outputs:	alarm, supervisory, and low battery
Detection Method:	pattern recognition
Temperature Range:	32° to 120°F (0° to 49°C)

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DXS-10	SST00079	Supervised Wireless Keypad
DXS-91	SSA00015	Supervised Glass Break

DXR-701

1-Channel Receiver

DXR-702

2-Channel Receiver

- Field Selectable Output Modes — Two Momentary, Latch, Flip-Flop
- 32 Transmitter Capacity
- RF Activity Indicator
- Quick-Learn Transmitter Programming
- Form-C Relay Contact Output
- Low-Battery Sensing (DXR-702 Only)



To assist programming, the DXR-702's LED is continuously lit in the "learn" mode; it flashes to indicate that the transmitter's I.D. has been stored in memory; it also flashes to indicate channel number and when memory is clear.

GENERAL SPECIFICATIONS

Operating Frequency:	315 MHz
Data Format:	DX format
Number of Codes:	1,048,575
Measured Range:	700 feet with DXT-21 transmitter
Operating Temperature:	32° to 120° F (0° to 49° C)
Sensitivity:	-95 dBm (typical)
Receiver Output:	Form "C" relay contact, 1 amp, at 32 VDC
Selectable Output Modes:	momentary, 4-second (factory set) momentary, 1-second flip-flop (toggle) latch/restore, (2-channel only)
Antenna:	
DXR-701:	wire lead
DXR-702:	F-connector with antenna (supplied)
Input Impedance:	75 Ohm - 2:1 VSWR
Operating Voltage:	11 to 17.5 VDC 12 to 16 VAC
Current:	25 mA at standby at 12 VDC 60 mA in alarm at 12 VDC, DXR-701 90 mA in alarm at 12 VDC, DXR-702

Connectors:	screw terminals, +, -, with N/O, N/C, and common per receiver channel
Dimensions:	5.5 in L x 1.25 in W x 4 in H (140 x 32 x 102 mm), excluding antenna
Accessories:	mounting bracket, screws, and anchors (supplied)
Regulatory Requirements:	FCC and DOC

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DXR-701	SNR00148	1-Channel Receiver
DXR-702	SNR00149	2-Channel Receiver
EXA-1000	AAE00198	Extended Range Antenna



RECEIVERS

DXSR-1504

Supervised 4-Channel Receiver

DXSR-1508

Supervised 8-Channel Receiver



- Dual Diversity Superheterodyne Receivers
- Compatible with DX and DXS Transmitters
- Selectable Supervision by Channel
- Selectable Outputs per Channel

GENERAL SPECIFICATIONS

Number of Channels:

DXSR-1504: 4 channels, supervised

DXSR-1508: 8 channels, supervised

Receiver Type: diversity, dual superheterodyne

Carrier Frequency: 315 MHz

Bandwidth: 400 KHz typical

Receiver Sensitivity: -102 dBm typical at each antenna

Data Formats: Linear DX and DXS

Modulation: type A1D, PPM (pulse position modulation)

Measured Range: 1,500 feet typical, with most standard Linear DX 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: 4-channel alarm outputs, one common low battery output, and one common status output

DXSR-1508: 8-channel alarm outputs, one common low battery output, and one common status output

Type: open collector

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: three, 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 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: one 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" and channel ID during programming mode

RF Activity: indicated by decimal point on 7-segment display; indicates radio receiver activity; flashes with received data

Alarm Condition: three LED indicators — alarm, low battery, and status; displays conditions with corresponding channel ID

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: 32° to 140° F (0° to 60° C)

Dimensions: 7.25 in L x 1 in W x 5 in H (185 x 25.4 x 127 mm)

Space Required for

Installation: 7.5 in L x 14.0 in H

Antennas: two, 9-1/2 in wire whip antennas (supplied)

Mounting Hardware: four #6 x 1-1/4 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; one common status output provided for all channels; 7-segment display indicates channel where violation occurred; exception set and cleared by channel status supervision enabled per channel; status enabled by cutting proper jumper per channel; factory default disabled; *Note: with status supervision monitoring, it is not recommended to have more than one transmitter learned per channel*

Low Battery Supervision: monitors each transmitter for low battery alarm; reports if any learned transmitter low battery signal received; one common low battery output for all transmitters; 7-segment display indicates channel where low battery occurred; low battery set and cleared by individual transmitters; transmitter that sends low battery report must send a good battery signal to clear low battery condition

Program Mode: enabled by program jumper; remove to enter program mode

Transmitter Learn: momentary press and release desired channel learn button; activate transmitter within five seconds to learn it into desired channel

Memory Erase: hold appropriate channel learn button for more than 10 seconds and release; transmitters learned into that channel will be erased from receiver memory

Memory Interrogation: hold appropriate channel learn button for more than five and less than 10 seconds; alarm LED will flash the number of transmitters learned into selected channels

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DXSR-1504	SSR00070	Supervised 4-Channel Receiver
DXSR-1508	SSR00071	Supervised 8-Channel Receiver

Accessories

RB-90	AAE00253	Single Relay Interface for DXSR Receiver
--------------	----------	--

DVS-1200

Supervised
Wireless
Security Console

DVS-2400

Supervised
Wireless



- Uniquely-Styled, Ultra-Compact
- Surface, Flush, or Tabletop Mounting
- Quick-Learn Programming
- Rechargeable Back-Up Battery
- Six Operating Modes
- 11 Reporting Zones
- Paging Capability
- Event Memory, 100 Events
- Built-in Speaker
- Eight User Codes, Including Duress
- Provisions for Remote Alarm Indicating Devices
- Optional Two-Way Voice, Voice Prompt Mode
- Point ID Reporting
- Remote Access via RA-2400 Software
- UL, CSFM Listed

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DVS-1200	SSC00046	Supervised Wireless Security Console, 12 Zone
DVS-2400	SSC00036	Supervised Wireless Security Console, 24 Zone
VB-2	AAE00365	Voice Prompt, Telephone Access, 2-Way Board



DUAL-824

Supervised
Wireless/Hardwire



- True Hybrid Design
- Same Features as DVS-2400
- 24 Supervised Zones with up to Eight Hardwire Loops
- Integral Superheterodyne Radio Receiver
- Rechargeable Back-Up Battery
- Event Memory, 100 Events
- Supports Two Supervised Hardwire Control Centers
- Easy-to-Read LED Control Center
- Keypad Included with Panel
- UL, CSFM Listed



ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DUAL-824 Panel	SSC00056	Supervised Wireless/Hardwire Security
VB-2	AAE00365	Voice Board with 2-Way Voice
DUAL-824KP	AAE00451	Hardwire Keypad
RSM-2	CAE00191	Speaker/MicKit

GENERAL SPECIFICATIONS

ELECTRICAL

Primary Operating Voltage: 120 VAC, 60 Hz
Transformer: UL listed, Class II, plug-in, 16 VAC, 1.25 A (supplied)
Back-Up Battery: DVS-1200: 1.2 Amp-hour, 12 VDC; DVS-2400: 1.2 Amp-hour, 12 VDC; DVS-2408 Series II: 4.0 Amp-hour, 12 VDC

RADIO RECEIVER

Type: superheterodyne
Operating Frequency: 315 MHz \pm 100Kc
Sensitivity: -102 dBm minimum
Antenna Type: counterpoised bipolar design
Compatible RF Formats: Linear DX, DXS

CONTROL PANEL

Radio Zones: DVS-1200: 12 supervised; DVS-2400, DVS-2408: 24 supervised
Hardwire Loops (DUAL-824): eight supervised
PAC Codes: eight total, including Duress, Installer, Paging and five User
Operating Modes: Off, Chime, Home, Home Instant, Away, and Test
Sensor Types: 11 including Automation, Emergency, Panic, Fire, Perimeter, Exit/Entry, Interior, Chime Only, Arm/Disarm A, Arm/Disarm B, and Environmental
Auxiliary Outputs: Automation, External Console Speaker, and External Alarm Siren
Event Memory: 100 events, accessible via RA-2400 software
Memory: EEPROM retains system programming during total power failure
Operating Temperature: 32° to 120°F (0° to 49°C)

COMMUNICATOR

Dialing: DTMF or pulse dialing; pulse speed (10 PPS, 60% break, 40% make)
Ringer Equivalence: 1.7 B
Reporting Formats: 4 x 2, 40 PPS, or Ademco Contact ID
Telephone Numbers: primary, secondary, and supervisory
Reports: full zone reports, console reports, general system reports, forced arming, and duress PAC
Event Buffer: 100 events including arm/disarm by PAC, alarm, trouble with time and date, enabled via RA-2400 software
Event Access: via event RA-2400 software

DUAL-824 HARDWARE KEYPAD

Indicators: 24 red zone condition indicators, plus

Built-In Speaker:

power on, trouble, battery, and five system operating mode indicators

Speaker Output Level:

8 Ohm

Keypad Wiring:

85 dBA at 10 ft (when connected)
eight total, minimum four total: +, -, data in, data out; for speaker connection add audio +, audio -; for microphone connection add mic +, mic -; maximum eight wires

Operating Temperature:

32° to 120°F (0° to 49°C)

PHYSICAL

DVS-1200, DVS-2400 Consoles

Dimensions: 10.5 in L x 7.75 in W x 2.87 in H (267 x 197 x 73 mm)
Weight: 3 lbs (1.36 kg)

DUAL-824 Control Panel

Dimensions: 11.5 in L x 4 in W x 12.5 in H (292 x 102 x 318 mm)
Weight: 6 lbs (2.72 kg)

DUAL-824 Hardwire Keypad

Dimensions: 6.50 in L x 4.30 in H x 1.40 in D (165 x 114 x 36 mm)
Weight: 2 lbs (.91 kg)

ACCESSORIES

VB-2:

voice board with voice prompts and remote telephone access capabilities same as VB-3, plus 2-way voice

Two-Way Voice Modes: listen only, 2-way manual, full duplex

Switching Modes: listen only — none; 2-way manual — press 1 to talk; press 3 to listen, press 9 to disconnect

Remote Telephone Access Modes:

from remote touch-tone telephone (all models); from local touch-tone telephone (DVS-2400, DUAL-824 only)

Telephone Access Methods:

from remote telephone—dial, redial, enter PAC code plus #, console will report mode, alarms, and trouble; from local telephone—press # # #, enter PAC code plus #, console will report mode, alarms, and trouble

Voice Prompt Vocabulary:

32 words, including key system words, modes, zone numbers, conditions (i.e., "System Armed, Away Mode")

DUAL-824KP:

additional control center for DUAL-824 panel

RA-2400:

Windows based program for remote or direct connect programming and downloading (DVS-1200, 2400, DUAL-824, and PERS-2400A)

Pull Cord AlertLink

Receiver/Interface for Annunciator-Type Nurse Call Systems



- Interfaces to Most Nurse Call Systems
- Adds Pendant Transmitter Capability
- Emulates a Pull Cord Station
- Form "C" Alarm Contacts
- Latching or Momentary Outputs
- Accepts up to 32 DX Transmitters
- Fail-Safe Operating Mode
- Trouble Contacts
- Includes Power Supply
- Can Be Used in a Stand Alone Configuration

GENERAL SPECIFICATIONS

Operating Power:	12 to 16 VAC or 12 to 16 VDC (note that a 16 VAC transformer is supplied with unit)
Operating Current:	up to 120 mA
Indicators:	Power On (green); Service (yellow), transmitter low battery; Alert (red), transmitter alarm
Radio Format:	Linear DX
Receiver Type:	superheterodyne
Operating Frequency:	315 MHz
Capacity:	up to 32 transmitters
Outputs:	four relay outputs rated at 1 amp at 120 VAC one dry contact, three contacts with common input point
Wiring Connections:	color-coded wire leads
Dimensions:	5.25 in H x 3.625 in W x 1.5 in D (133 x 92 x 38 mm)

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
AL-1	SNR00160	Pull Cord ALERTLINK
Compatible Transmitters*		
DXT-21 Transmitter	SNT00376	2-Button, 1-Channel Handheld
DXT-61A Transmitter	SNT00380A	1-Button, 1-Channel Pendant
DXS-62	SST00090	Supervised, Waterproof 1-Button Wrist/Pendant Transmitter
DXS-63	SST00091	Supervised, Waterproof 2-Button Wrist/Pendant Transmitter



EMERGENCY REPORTING SYSTEMS

PERS-2400A

Personal Emergency Reporting System



- Suitable for Temporary or Permanent Installation
- Braille Characters for Emergency, Home, and Clear Functions
- Selectable Inactivity Reporting, 8, 12, or 24 Hours
- 16-Transmitter Capacity
- Point ID Reporting Allows for Multiple Users
- 30-Hour Back-up Operation with Optional NP-2 Battery
- Delayed, Silent Alarm Feature
- Two-Way Voice Option (VB-4)
- Speaker Phone Capability (with VB-4)
- In and Out Telephone Jacks

- Optional RJ-31X Adapter
- Power On/Off Switch
- Programmable RA-2400 Software
- Installs in Minutes
- UL Listed per Standard 1637
- CSFM Listed

GENERAL SPECIFICATIONS

Primary Power:	120 VAC, 60 Hz
Backup Power:	12 VDC, 1.2 AH battery (order separately)
Standby Current Drain:	80 mA without VB-4 110 mA with VB-4
Alarm Current:	130 mA
Backup Operation:	30 hours with VB-4 installed
Operating Temperature:	32° to 120° F (0° to 49° C)
Dimensions:	8.75 in L x 7.50 in W x 3.00 in H (222 x 190 x 76 mm)
Communications Formats:	4 x 2, contact ID
Reports:	full transmitter reports, console reports, general system reports, and inactivity

Programming Method:	via RA-2400 Windows-based software
Relay Outputs:	form "A" normally open common alarm contact
Contact Rating:	1 Amp @ 12 VDC
Indicators:	LED type labeled Power On, Sending, Trouble and Home
Control Switches:	Emergency with Braille, Home with Braille H, Clear with Braille C
RF CHARACTERISTICS	
Receiver Type:	dual diversity, superheterodyne with two antennas
Operating Frequency:	315 MHz
Coding Formats:	Linear DXT and DXS
Programming Method:	quick-learned by console

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
PERS-2400A	SSC00062	Supervised Wireless Personal Emergency Console, 16-Zone
VB-4 Board	AAE00419	Voice Prompt, Telephone Access, 2-Way
RJ-Adapt	AAE00435	RJ-31X Adapter Cord

DXS-62

1-Button, 1-Channel
Pendant/Wristband Transmitter

DXS-63

2-Button, 1-Channel
Pendant/Wristband Transmitter



- **Waterproof**
- **Field Enabled RF Supervision**
- **Low Battery Reporting**
- **Lithium Battery Powered**
- **New Velcro Wristband**
- **Pendant, Wristband, Belt Clip, or Pocket Clip Configurations**
- **Audible and Visual Activation Indicators**
- **Two-Year Battery Life Guarantee**



GENERAL SPECIFICATIONS

Dimensions:	1.5 in L x 1.25 in W x .375 in D (38 x 32 x 10 mm)
Power:	lithium battery
Battery Life:	up to 4 years of battery life
Transmissions:	Alarm, Low Battery, Status (if enabled)
Number of Channels:	
DXS-62	one-button, one-channel
DXS-63	two-button, one-channel, failsafe operation
Operating Frequency:	315 MHz
Accessories:	wristband, pendant cord, belt clip, and pocket clip (supplied)

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
DXS-62	SST00090	Supervised, Waterproof 1-Button Wrist/Pendant Transmitter
DXS-63	SST00091	Supervised, Waterproof 2-Button Wrist/Pendant Transmitter

SXR-64A

Supervised Receiver



- Interfaces with Most Control Panels
- Supports 64 Transmitting Devices
- Eight Field Selectable Output Zones
- Superheterodyne Receiver
- Compatible with all Linear 16,000,000 Code SX Format Transmitters
- Backwards Compatible with ST, ST-1, 50S40, ST-23A, and ESL-371 Transmitters
- Provides Full RF Supervision and Reporting — Alarm, Restore, Tamper, Supervisory, Low Battery, and Test
- Total Flexibility with Transmitter Configuration and Zoning — Field Selectable Status Reporting Time Frame; Field Selectable Device Supervision
- Multifunction Display Provides Complete System Updates

GENERAL SPECIFICATIONS

Dimensions:	7.9 in L x 1.25 in W x 6.5 in H (201 x 32 x 165 mm)
Operating Frequency:	303.875 MHz \pm 100 KHz
Data Format:	Linear SX and Linear S1 formats
Number of Codes:	16,777,216 with SX; 65,536 with S1
Number of Channels:	64
Number of Zones:	eight

Measured Range:	1,500 feet line of sight with SX transmitters; 500 feet line of sight with S1 transmitters
Operating Temperature:	32° to 100° F (0° to 49° C)
Sensitivity:	-100 dBm (typical)
Operating Voltage:	12 to 16 VDC
Operating Current:	200 mA max.
Inputs:	+ voltage input - voltage input armed input
Outputs:	eight total zones (field selectable for open or closed operation) - open collector output rated at 50 mA at 24 VDC max per output; plus low battery; status; tamper; test; common
Connectors:	screw terminals provided for all inputs and outputs
Display:	three 7-segment LED displays
Displayed Information:	channel number (1 to 64); first alarm; alarm; status exception; low battery; channel open; tamper
Transmissions Monitored:	alarm; restore; test; low battery; status; tamper
Antenna:	9-1/2 inch whip antenna with F-connector (supplied)

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
SXR-64A	SSR00083	64-Channel, 8-Zone Receiver

SX SUPERVISED TRANSMITTERS

T-90D

Supervised Door/Window Transmitter



TX-91

2-Button, 3-Channel Handheld Transmitter



TX-92

3-Button, 6-Channel



TX-94

5-Button, 15-Channel



- Full RF Supervision
- Tamper and Test Switches
- Test Switch
- Includes Integral Magnet
- Provisions for External Devices
- Includes All Mounting Hardware
- Custom Configurable via Mode Switch and Jumpers

- Unique Top Button Actuator
- Test/Operate LED
- Pocket Clip and Belt Clip Supplied
- Lithium Battery Powered
- Full RF Supervision

GENERAL SPECIFICATIONS

TD-90

Mounting:	snaps into mounting plate (supplied)
Power:	two 3V DL-2032 lithium batteries (supplied); optional - two 3V DL-2450 lithium batteries for extended life
Battery Life:	up to five years with DL-2032 batteries; up to seven years with DL-2450 batteries
Operating Temperature:	32° to 120° F (0° to 49° C)
Frequency:	303.875 MHz
Number of Codes:	16,777,216
Code Setting Method:	factory programmed
Mode Switch Settings:	N/O or N/C DIP switch selectable; fast or slow response DIP switch selectable; glass break selection DIP switch selectable; retransmission delay DIP switch selectable
Jumper Selection:	left reed switch; right reed switch; reed switches disabled; external switch enable

TX-91, TX-92, TX-94

Dimensions:	1.6 in L x 0.8 in W x 4.2 in H (41 x 20 x 107 mm)
Power:	two 3V DL-2032 lithium batteries (supplied)
Battery Life:	up to five years
Operating Temperature:	32° to 140° F (0° to 60° C)
Actuation Indication:	LED indicator and tactile feedback
Accessories:	pocket clip and belt clip (supplied)
Frequency:	303.875 MHz
Number of Codes:	16,777,216
Code Setting Method:	factory programmed

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
T-90D	SST00050D	SX Door/Window Transmitter with Magnet
TX-91	SST00055	2-Button, SX Handheld Transmitter
TX-92	SST00056	3-Button, SX Handheld Transmitter

TMD-90

Passive Infrared Motion



- Fully RF Supervision
- Tamper Switch
- Walk Test Mode
- Adjustable Pulse Count, 2, 3, or 5
- Two-Second Transmission Delay Feature
- Battery Saver Circuit
- Retransmission Delay
- Supplied with Multiple Lenses
- Vertical/Horizontal Curtain, Area Lens (Installed)

TGB-96

Pattern Recognition
Technology Glass Break



- Shatter Pro Pattern Recognition Technology
- Full RF Supervision
- Lithium Battery Powered
- Test/Operate/LED

TSD-90A

Photoelectric Smoke



- Forward-Scattering Photoelectric Detector
- Built-in 85 dBA Sounder
- Full Supervision
- Alarm Verification Circuitry
- UL, CSFM Listed

GENERAL SPECIFICATIONS

TMD-90

Detector:	balanced dual-element pyroelectric
Installed Lens:	aspheric Fresnel lens with 24 facets, 9 main, 8 intermediate, 5 short, 2 creep
Other Supplied Lenses:	vertical curtain lens, 11 facets, 12-meter range; horizontal curtain lens, 11 facets, 40-meter range; spot lens, 8 facets, 40-meter range
Installed Lens Detection Pattern:	40 x 40 feet
Vertical Adjustment:	+5 to -15 degrees
Pulse Count:	2, 3, and 5, field selectable; pulse count period - 8, 16, and 32 seconds, field selectable
Walk Test Mode:	pulse count of 1, RF transmission, LED indicator

Power:	four 1.5 V AA alkaline cells (supplied)
Current Consumption:	standby 15 μ A max., alarm 12 mA max.
Battery Life:	calculated at five years
Operating Temperature:	32° to 120° F (0° to 49° C)
Dimensions:	5.75 in L x 3.25 in W x 1.75 in H (146 x 83 x 44 mm)
Color:	light gray
Operating Frequency:	303.875 MHz
Measured Range:	3,500 ft line of sight
Number of Codes:	16,777,216
DIP Switch Settings:	pulse count of 2, 3, or 5; pulse count period 8, 16, or 32 seconds
Transmission Delay:	two seconds
Retransmission Delay:	four minutes
Hardware:	mounting screws and anchors supplied

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
TMD-90	SST00058	SX Passive Infrared Motion Detector
TGB-96	SSA00016	SX Pattern Recognition Technology Glass Break Detector

ST-23A

Bill Trap

LMT-1/303

Emergency Transmitter

MPX/303

Emergency Transmitter



- Supervised for Low Battery
- Alarm, Restore, Test Transmissions
- Lithium Battery Powered
- Over 65,000 Codes
- Test LED
- Transmit Repeat Feature Ensures Reliability

- Over 1,000,000 Codes
- Factory Programmed
- Compact Design
- Test/Operate LED
- Includes Neck Chain

GENERAL SPECIFICATIONS

ST-23A

Encoding Technique:	two 8-position DIP switches
Number of Codes:	65,536
RF Carrier Frequency:	303.875 MHz
Power:	two DL-2032 lithium batteries (supplied)

LMT-1/303

Encoding Technique:	MegaCode 24-bit factory programmed
Number of Codes:	1,048,575
RF Carrier Frequency:	303.875 MHz
Power:	GP23 12V battery (supplied)

MPX/303

Encoding Technique:	MegaCode 24-bit factory programmed
Number of Codes:	1,048,575
RF Carrier Frequency:	303.875 MHz
Current Consumption:	8 mA transmitting
Operating Temperature:	battery limited
Dimensions:	2.0 in L x .45 in W x 2.8 in H (51 x 1.4 x 71 mm)
Power:	two DL-2032 lithium batteries (supplied)

- Squeeze Type Transmitter
- Water-Resistant Case
- Over 1,000,000 Factory Programmed Codes
- Low-Battery Reporting
- Lithium Battery Powered

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
Transmitters		
ST-23A	SST00049A	S1 Bill Trap
LMT-1/303	SNT00359	MegaCode Pendant Transmitter
MPX/303	SNT00342	MegaCode Squeeze Pendant with Low Battery Reporting

(800) 421-1587

Linear SECURITY

ET-1B

Emergency Transmitter

ET-2

Miniature Transmitter

D-22A; D-22B;

D-22C; D-22D; D-4B

Handheld Transmitters



- 2-Button Fail-Safe Operation
- Water Resistant
- Includes Neck Chain



- Compact Design
- Test/Operate LED
- Includes Neck Chain

D-22A

- 1-Channel
- 256 Codes

D-22B

- 2-Channel
- 128 Codes

D-22C

- 2 Independent Channels
- 256 Codes/Channels

D-4B

- 4-Channel
- 64 Codes

GENERAL SPECIFICATIONS

Operating Frequency:	303.875 MHz
Power:	
ET-1B, ET2	GP-23 12 VDC battery (supplied)
All Others	9 VDC NEDA battery (supplied)
Current Consumption:	
ET-1B, ET2	3 mA transmitting
All Others	2 mA transmitting
Operating Temperature Range:	battery limited

D-21A & D-24A

Wall Mount Transmitters, DIP Switch Programmable



D-23R

Bill Trap



- Slimline Case Design
- Test/Operate Switch
- Test/Operate LED
- 256 Selectable Codes

D-21A

- Test/Operate Switch
- Test/Operate LED
- Normally Open Circuit (D-21A)
- Normally Closed Circuit (D-22A)

D-24A

- One N/C Circuit
- 1-Second Time Delay On Transmission
- Pushbutton Transmit Switch
- Loop Terminal Strip

- Concealed Transmit LED
- 256 Selectable Codes
- 45-Second Transmission Repeat Feature Ensures Reliability

Dimensions

ET-1B	1.72 in L x .75 in W x 1.76 in H (44 x 19 x 45 mm)
ET-2	1.42 in L x .66 in W x 2.2 in H (36 x 17 x 55)
D-22 Series	2.16 in L x .88 in W x 3.75 in H (55 x 22 x 95 mm)
D-4B	2.16 in L x .88 in W x 3.75 in H (55 x 22 x 95 mm)
D-21A, D24-A:	2.4 in L x 0.9 W X 4.7 in H (62 x 23 x 120 mm)
D-23R	2.4 in L x 6.2 in W x 0.9 H (61 x 157 x 23 mm)

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
Transmitters		
ET-1B	SNT00054B	1-Channel Pendant, 2-Button Lockout
GP23	203814	Miniature 12-Volt Battery
ET-2-19	SNT00055	1-Channel Pendant, Beige Case, White Button with Chain
ET-2-12	SNT00055A	1-Channel Pendant, Beige Case, Red Button with Chain
WET-2	AAE00215	Water-Resistant Clamshell (10 Pack)
D-22A	SNT00016	1-Channel Handheld
D-22B	SNT00296	2-Channel Handheld
D-22C	SNT00298	2-Channel Handheld with two 8-Position DIP Switches
D-22D Lockout	SNT00299	2-Channel Handheld with 2-Button
D-4B	SNT00048B	4-Channel Handheld
D-21A	SNT00004	N/O Wall Mount, Door/Window

D-67, DX-12

Single-Channel Receivers,
DIP Switch Programmable



D-67, D-67F, D-67L

- Wide Range of Output Options
- 256 Code Capability
- Accepts All Standard Digital Transmitter Inputs
- Form "C" Relay Output
- One Amp Contact Rating @ 32 Volts AC/DC

D-67

- 4-Second On Time
- 11-24 VDC or 12-16 VAC Input Power

D-67L

- Latching Output
- Receiver Reset Switch
- 11-14 VDC or 12 VAC Input Power

D-67F

- On/Off Alternating Relay
- 11-14 VDC or 12 VAC Input Power

DX-12

- Metal Case
- Improved Range



DX-12

GENERAL SPECIFICATIONS

Encoding Technique:	pulse width A-1 modulation at 250bits/sec; four correct 8-bit words required to operate the output
RF Carrier Frequency:	303.875 MHz
Current Consumption	
D-67, D-67L, D-67F:	10 mA standby 40 mA operating
DX-12:	10 mA standby 40 mA operating
Dimensions:	
D-67, D-67L, D-67F:	4.9 in L x 1.3 in W x 3.8 in H (125 x 33 x 97 mm)
DX-12:	5.5 in L x 1.3 in W x 3.8 in H (140 x 33 x 97 mm)
Operating Temperature Range:	32° to 140° F (0° to 60° C)
Antenna:	D-67, wire lead (supplied) DX-12, 9-1/2 inch whip (order separately)

D-2R; D-4R; D-8C

Multiple-Channel Receivers,
DIP Switch Programmable



- 2-, 4, and 8-Channel Configurations
- 11-24 VDC and 12-16 VAC Operations

D-2R

- 2 Independent Channels
- 64 Discrete Codes
- Two Form "C" Relay Outputs
- One Amp Contact Rating @ 32 Volts AC/DC

D-4R

- 4 Independent Channels
- 64 Discrete Codes
- Provides Four Form "C" Relay Outputs with One Amp Contacts @ 32 Volts AC/DC

D-8C

- 8 Independent Channels
- 32 Discrete Codes
- 8-Channel N/O Switch to Common Outputs
- Output Capability, 40 mA
- Improved Range

GENERAL SPECIFICATIONS

Encoding Technique:	pulse width A-1 modulation at 250bits/sec; four correct 8-bit words required to operate the output
RF Carrier Frequency:	303.875 MHz
Current Consumption	
D-8C:	10 mA standby 40 mA operating
D-2R; D-4R:	15 mA standby 60 mA operating
Dimensions:	
D-2R, D-4R, D-8R:	4.9 in L x 1.3 in W x 4.2 in H (125 x 33 x 107 mm)
Operating Temperature Range:	32° to 140° F (0° to 60° C)
Antenna:	wire lead (supplied)

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
Receivers		
D-67	SNR00032	1-Channel Relay Output
D-67F Output	SNR00035	1-Channel On/Off Alternating Relay
DX-12 Output	SNR00038	1-Channel Extended Range, Relay
LA	109186-01	External High Gain Antenna with F-Connector for DX-12
D-2R	SNR00009A	2-Channel Relay Output

XT Mid-Range Transmitters

XT-1, 1-Channel Stationary
 XT-4, 4-Channel Stationary
 XT-1H, 1-Channel Handheld
 XT-2H, 2-Channel Handheld
 XT-4H, 4-Channel Handheld



STATIONARY TRANSMITTERS

- Up to 10 Miles of Line-of-Sight Range
- Weather-Resistant Case
- RF Transmit LED
- Accepts N/O or N/C Inputs
- Field Enabled RF Supervision

HANDHELD TRANSMITTERS

- Up to Two Miles of Line-of-Sight Range
- Configurable as Stationary Transmitters
- XT-2H and XT-4H Configurable as 2-Button Panic Transmitters
- XT-4H Configurable as 4-Channel Continuous Output Transmitter — for Up, Down, Left, Right Devices
- Includes Belt Clip
- Powered by Two 9V Batteries

Note: These products should not be used in life safety applications. FCC Rules allow unlicensed high-power transmissions at or near the operating frequency of these products, which may interfere with, or disable, normal operation of these radios.

GENERAL SPECIFICATIONS

Operating Temperature:	-4° to +140° F (-20° to +60° C)
Operating Frequency:	27.255 MHz
Bandwidth:	6 KHz
Number of Codes:	65,536
Code Setting Method:	DIP switch programming



STATIONARY TRANSMITTERS

Operating Voltage:	12 to 15.0 VDC
Operating Current:	standby - 15 μ A transmitting - 2.0 Amps at 12 VDC
Weight:	1.5 lbs. (0.680 Kg)
Dimensions:	4.25 in L x 2.5 in W x 6.25 in H (108 x 64 x 159 mm)
RF Output Power:	12 Watts (typical)
Loop Response Time:	500 msec
Code Transmissions:	alarm, restore, status, and low battery
Status Report Time Frame:	70 minutes
Transmit Time:	1 second
Antenna:	requires ANT-2

HANDHELD TRANSMITTERS

Power:	two 9V alkaline batteries (supplied)
Weight:	1 lb. (0.454 Kg)
Dimensions:	2.375 in L x 1.375 in W x 12.25 in H (60 x 35 x 311 mm)
RF Output Power:	2 Watts (typical)
Transmit Time:	up to 30 seconds
Code Transmissions:	alarm and low battery
Antenna Impedance:	50 Ohms (antenna supplied)
Accessory:	belt clip (supplied)

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
XT-1	SST00083	1-Channel Stationary Transmitter
XT-4	SST00084	4-Channel Stationary Transmitter
XT-1H	SNT00395	1-Channel Handheld Transmitter
XT-2H	SNT00396	3-Channel Handheld Transmitter
XT-4H	SNT00397	4-Channel Handheld Transmitter
Accessories		
T-1224DC	AAE00381	Power Supply, Wall-Mount, Recommended for XT-1 and XT-4 devices
ANT-1A	SNE00031	9-Inch Whip Antenna for XT and XR
ANT-2	SNE00002	Quarter Wave (3 Foot) Antenna with 18 Feet of Cable
CON-90A	SNE00030	Right Angle Adaptor for ANT-1A to XR and XT

XTENDED RANGE RECEIVERS

XR Mid-Range Receivers

XR-1, 1-Channel
XR-4, 4-Channel
XR-16, 16-Channel
XR-D, Data Only



- Up to 10 Miles of Line-of-Sight Range (XT-1, XT-4), Up to Two Miles of Line-of-Sight with Handheld Devices
- Superheterodyne Receiver Technology
- Over 64,000 Codes
- Form "C" Alarm Output (XR-1 and XR-4)
- Open Collector Alarm Outputs (XR-16)
- Weather-Resistant Case (XR-1, XR-4, XR-D)
- Power On and RF Activity Indicators
- Complete RF Supervision of XT-1 and XT-4 Transmitters (Field Enabled)

GENERAL SPECIFICATIONS

Operating Voltage:	12 to 15.0 VDC
Operating Current:	(See specific transmitter type)
Operating Temperature:	-4° to +140°F (-20° to +60°C)
Receiver Type:	superheterodyne
Sensitivity:	-118 dBm (minimum)
Selectivity:	6 KHz
Carrier Frequency:	27.255 MHz
Number of Codes:	65,536
Code Setting Method:	DIP switch programming
Data Input:	alarm, restore, status, and low battery
Status Exception Time Frame:	four hours
Antenna Impedance:	50 Ohms (not supplied: see ANT-1, ANT-2)

ADDITIONAL XR-1 AND XR-4 SPECIFICATIONS

Dimensions:	4.25 in L x 2.5 in W x 6.25 in H (108 x 64 x 159 mm)
Weight:	1 lb. (0.454 Kg)
Current Drain:	XR-1 — 25 mA, typical standby 65 mA alarm @ 12 VDC XR-4 — 24 mA, typical standby 185 mA alarm @ 12 VDC
Outputs:	alarm — form "C" relay per channel (XR-1, XR-4) status exception - one open collector output per receiver low battery - one open collector output per receiver audio and signal strength test points

ADDITIONAL XR-D SPECIFICATIONS

Dimensions:	4.25 in L x 2.5 in W x 6.25 in H (108 x 64 x 159 mm)
Weight:	1 lb. (0.454 Kg)
Current Drain:	40 mA (typical)
Outputs:	ASCII, RS232 serial output, audio and signal strength test points

ADDITIONAL XR-16 SPECIFICATIONS

Dimensions:	7.9 in L x 1.25 in W x 6.5 in H (201 x 32 x 165 mm)
Weight:	1.5 lb. (0.680 Kg)
Current Drain:	300 mA (max) @ 12 VDC
Outputs:	16 open collector alarm outputs field programmable for either N/O or N/C operation; one form "C" common output relay; one open collector status exception output; open collector low battery output; audio and signal strength test points
Indicators:	three 7-segment displays; provides alarm, status, and battery indication by channel

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
XR-1	SSR00068	1-Channel Receiver
XR-4	SSR00069	4-Channel Receiver
XR-16	SSR00066	16-Channel Receiver
XR-D	SSR00067	Data Output Only Receiver
Accessories		
ANT-1A	SNE00031	9-Inch Whip Antenna for XT and XR
ANT-2	SNE00002	Quarter Wave (3 Foot) Antenna with 18 Feet of Cable
CON-90A	SNE00030	Right Angle Adaptor for ANT-1A to XR and XT
CON-180	SNE00029	Straight Adaptor for ANT-1A to XR and XT
T-124.8DC	AAE00382	Power Supply, Wall Mount, Recommended for XR devices

PD-2

Two-Channel Voice Dialer



- Compact, Contemporary Styling
- Interfaces to Most Systems
(Compatible with All Linear Security Consoles)
- Calls up to Four Numbers per Channel
- Programmable Dialing Delay to Prevent False Alarms
- Fast, Simple Programming
- On Line Testing
- Listen-In Feature
- Two Voice Messages Can Be Recorded and Stored
- Dials Pagers and Sends Numeric Message
- Dial Tone Detection Capability
- 120 Second Delay Option Permits Redundant Voice Reporting on Same Telephone Line with Systems that Include Digital Communicator

GENERAL SPECIFICATIONS

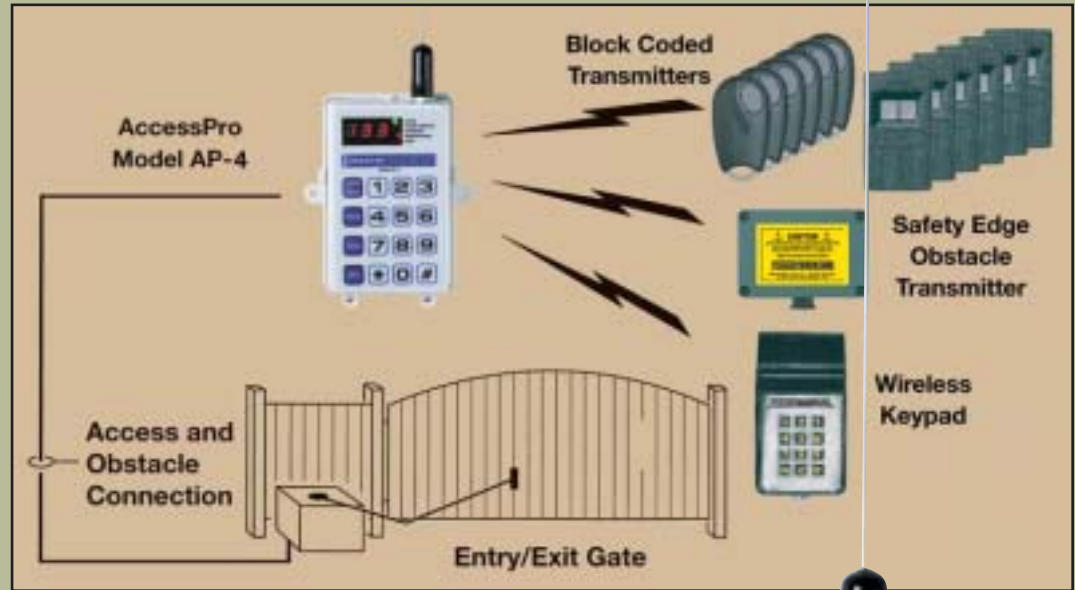
Operating Voltage:	9 to 16 VDC
Operating Current:	20 mA, standby, 100 mA, alarm
Number of Channels:	two
Programming Method:	programmed from integral keyboard
Telephone Numbers:	four per channel, eight total including pager capability
Dialing Method:	pulse or tone dialing (programmable)
Dialing Delay:	field programmable for zero, 15 (default), 30, 60, or 120 seconds
Message Length:	10 seconds per channel
Alarm Trigger:	short-to-common to activate
Method of Connection:	via supplied telephone style connectors
Supplied Connectors:	telephone cable for connection to telephone jack; telephone cable for power connection and alarm trigger
Certification:	FCC Part 68

ORDERING

MODEL	PRODUCT NUMBER	DESCRIPTION
PD-2	AAE00418	2-Channel Voice Dialer
Compatible Receivers		
DVS-1200 12-Zone	SSC00046	Supervised Wireless Security Console,
DVS-2400 24-Zone	SSC00036	Supervised Wireless Security Console,

AP-4

Single Entrance
Controller Systems



- Ideal for Gated Communities, Parking Facilities, Industrial Sites
- Accepts up to 480 Block Coded Remote Transmitters
- Accepts up to 238 Individual Transmitters or Keypad Codes
- Add, Suspend, Delete Individual Transmitters via Programming Mode

For more detailed
information about these
or any other Linear
products, go to
www.linearcorp.com



GENERAL SPECIFICATIONS

Operating Power:	12 to 24 VAC or VDC @ 250 mA maximum
Inputs:	
Radio Receiver:	318 MHz super regenerative receiver
Open Request:	terminal input and button activation
Keypad:	integral 16-key membrane style
Capacity:	480 Block Coded transmitters or, 238 Single-Learn transmitters 1 MGT safety edge transmitter
Outputs:	
Control:	1 form "C" relay rated at 1 Amp @ 24 VAC or DC
Obstacle:	1 form "C" relay rated at 1 Amp @ 24 VAC or DC

Antenna:	9-inch whip antenna (supplied)
Operating Temperature:	-22° to +155° F (-30° to +67° C)
Dimensions:	3.625 in W x 5.25 in H x 1.5 in D (92 x 133 x 38 mm)
Compatible Transmitters:	
Block Coded	MDT-1B, -2B; ACT-21B, -22B; ACT-31B, 34B; MT-1B, -2B
Single Learn	MDT-1, -2, ACT-21, -22; MDTK (keypad)
Obstacle	MGT safety edge transmitter
Optional Antennas:	EXA-1000 omnidirectional; with hardware, cable EXA-2000, directional; with hardware, cable

AK-1

Digital Keypad, for Exterior Use

AKR-1

Digital Keypad with Radio Receiver for Exterior Use

AK-2

Digital Keypad for Interior Use



Common Keypad Features

- Self-Contained System
- 480 Programmable Input Codes
- Metal Keys
- System Status Indicators
- Two Form "C" Output Relays
- Two Solid-State Open Collector Outputs
- Door Sense Input; Inhibit Input; Request-to-Enter Input; Alarm Shunt Output; Timed Anti-Passback, Keypad Lockout
- Tactile and Audio Feedback

AK-1

- Down Light Illuminates Whenever Keypad is Used
- Rugged, Cast Aluminum Enclosure
- Suitable for Outdoor Use
- Pedestal Mounting

AKR-1

- Same features as AK-1
- Adds RF Capability
- Accepts up to 480 Block Coded Transmitters
- Accepts One Safety Edge Transmitter
- Built-in Vandal-Resistant Antenna

AK-2

- Attractive Contemporary Design
- Includes Four Designer Bezels
- Down Light Illuminates Whenever Keypad is Used
- Tamperproof

AK-2W

- Outdoor Version of AK-2 (Less Bezel Kit)

AK-3

- Attractively Styled
- Economically Priced



AK-2

Digital Keypad for Interior Use

AK-2W

Digital Keypad for Weather-Resistant Applications

AK-3



GENERAL SPECIFICATIONS

Operating Power:	12 to 24 VAC or VDC @ 150 mA maximum
Inputs:	
All Keypads:	480 programmable keypad entry codes
AKR-1:	480 block coded transmitters, 1 safety edge transmitter
Outputs:	
Relay 1:	form "C" relay rated at 5 Amp @ 24 VAC or DC
Relay 2:	form "C" relay rated at 1 Amp @ 24 VAC or DC
Solid-State:	short-to-common 100 mA @ 30 VDC max
Operating Temperature:	-22° to +149°F (-30° to +65° C)
Dimensions:	
AK-1:	4.00 in W x 5.50 in H x 3.00 in D (102 x 140 x 76 mm)
AKR-1:	4.00 in W x 7.00 in H x 3.00 in D (102 x 178 x 76 mm)
AK-2, 2W:	3.00 in W x 5.00 in H x 3.00 in D (76 x 127 x 76 mm)
AK-3:	3.00 in W x 5.00 in H x 3.00 in D (76 x 127 x 76 mm)
Accessories:	
Transmitters—AKR-1:	
Block Coded	MDT-1B, -2B; ACT-21B, -22B; ACT-31B, 34B; MT-1B, -2B
Obstacle	MGT safety edge transmitter

For more detailed information about these or any other Linear products, go to www.linearcorp.com



RE-1

Residential
Telephone
Entry System



- Dramatic Contemporary Styling
- Cast Housing — Stainless Steel; Gold Plate Option
- Downlighting
- Voice Prompts, User Friendly, Owner Friendly
- Two Programmable Outputs — Control Two Openings, Obstacle Reverse, Alarm Shunt
- Optional Low Light CCTV Camera Kit
- Provisions for Knox Box
- Simple to Program and Maintain — On Board Keypad, Touchtone Telephone, Computer with Modem
- 500 Event Memory Log
- Supports 100 Entry Codes
- Supports 100 Block-Coded Transmitters
- Applications Include Single Residence, Commercial Sites, Employee Parking

GENERAL SPECIFICATIONS

Input Power:	120 VAC 60 Hz
Output Power:	16 VAC from supplied transformer
Operating Power:	12 VDC @ 250 mA standby, 500 mA operating 24 VDC @ 150 mA standby, 300 mA operating 16 VAC @ 270 mA standby, 440 mA operating
Back-up Power:	12 or 24 VDC externally charged battery set
Phone Line:	capable of sharing an existing line, or a dedicated line
Operating Modes:	dial up to three outside lines, or intercom mode
Inputs:	
Call Button:	push button input used to initiate communications
RF:	integral 318 MHz superheterodyne receiver
Open Request:	terminal input for each output relay; triggers assigned relay for programmed relay on time
Door Sense/Inhibit:	terminal input for each output relay; monitors status of a protected entry point or can be programmed to restrict access
Keypad:	12 digit telephone style keypad for accepting entry codes and for local programming
Capacity:	
RF:	up to 100 Linear Megacode transmitters
Keypad:	up to 100 entry codes.
Outputs:	
Relay 1:	form "C" relay rated at 3 Amp @ 30 VAC or DC
Relay 2:	form "C" relay rated at 3 Amp @ 30 VAC or DC
Operating Temperature:	-22° to +149° F (-30° to +65° C)
Accessories:	
RE-BWC:	low light camera kit, black and white
AM-KP:	auxiliary wired keypad used for accepting entry codes to control a second door or gate.
Block Coded Transmitters:	accepts all ACT, MT and MDT transmitters

TELEPHONE ENTRY

AE-500

Telephone Entry System



- Economically Priced
- Stainless Steel front Panel
- Telephone Style Keypad with Surround Lighting
- Up to 250 User Capacity
- Accepts up to 500 Entry Codes
- Built-in RF Receiver
- Two-Line-16-Character LCD Display
- Many Installation Choices — Surface, Recessed, Gooseneck
- Built-in Modem for Remote Programming
- Multiple Programming Methods — From Keypad, From Touchtone Telephone, From Web Browser
- Two Configurable Output Relays
- Applications Include Apartment Buildings, Condominiums, Dorms, Hospitals

For more detailed
information about these
or any other Linear
products, go to
www.linearcorp.com

GENERAL SPECIFICATIONS

Input Power:	120 VAC 60 Hz
Operating Power:	12 or 24 VAC or VDC @ 500 mA standby, 750 mA operating
Inputs:	
PBUS:	one set for connection to proprietary wired keypad
RF:	integral 318 MHz superheterodyne receiver (requires optional AE-1000 or AE-2000 antenna)
Request to Exit:	two normally open inputs; each input assigned to a specific relay
Door Sense:	monitors status of the main relay
LEDs:	for configuration, status and troubleshooting
Front Panel Display:	LCD technology, 2 lines by 16 characters
Keypad Lighting:	surround LED lighting for the front panel keypad: LEDs remain on at 50% intensity until a key is pressed; once pressed, LEDs illuminate at 100% intensity for a period of 2 minutes
Capacity:	
Directory Codes:	up to 250
RF:	up to 500 Linear Megacode transmitters
Keypad:	up to 500 entry codes.
Outputs:	two form "C" relays configurable for open/close
Modem:	14.4 Kbps
Programming Method:	via integral keypad, touchtone telephone or via computer with web browser
Operating Temperature:	-22° to +145° F (-22° to +65° C)
Overall Size:	12.75 in H x 10.75 in W x 3.5 in D (324 x 273 x 89 mm)
	16 gauge powder coated steel cabinet; 16 gauge brushed stainless steel front panel
Accessories	
AM-KP:	auxiliary wired keypad used for accepting entry codes to control a second door or gate.
Block Coded Transmitters:	accepts all ACT, MT and MDT transmitters
GNC-1	gooseneck, curb mount
GNC-2	gooseneck, burial mount
TR-500	Trim ring for AE-500
EXA-1000	remote, omni directional antenna with hardware, cable
EXA-2000	remote, directional antenna with hardware, cable

AE-1000

Multi-Tenant
Telephone
Entry System
for up
to Four Portals



- **Stainless Steel front Panel**
- **Telephone Style Keypad with Surround Lighting**
- **Up to 10,000 User Capacity**
- **Built-in RF Receiver**
- **Two-Line-16-Character LCD Display**
- **Many Installation Choices — Surface Wall, Recessed Wall, Gooseneck**
- **Built-in Modem for Remote Programming**
- **Programming Via AccessBase 2000 Software**
- **Four Independently Configurable Output Relays**
- **Built-In Access Control Capabilities for up to Four Portals**
- **Network Ready**
- **Up to 256 Interconnected Portal Capacity**
- **Access Control Functions — 32 Validation (Security) Groups, 32 Time Zones, 32 Door Schedules, 32 Floor Schedules**
- **Application Include Apartment and Condo Complexes, Residential Communities, Industrial Complexes**

GENERAL SPECIFICATIONS

Input Power:	120 VAC 60 Hz
Operating Power:	12 or 24 VAC or VDC
Inputs:	
PBUS:	three sets of inputs for connection of up to six proprietary addressable devices
Wiegand:	two sets of Wiegand inputs for connecting 26, 30 or 31 bit Wiegand devices: each input supports two LEDs.
RF:	integral 318 MHz superheterodyne receiver (requires optional AE-1000 or AE-2000 antenna)
Request to Exit:	four normally open inputs; each input assigned to a specific relay
LEDs:	for configuration, status and troubleshooting
Display:	
Front Panel Display:	LCD technology, 2 lines by 16 characters
Keypad Lighting:	surround LED lighting for the front panel keypad: LEDs remain on at 50% intensity until a key is pressed; once pressed, LEDs illuminate at 100% intensity for a period of 2 minutes
Outputs:	
Relay:	four form "C" relays; all can be configured for open/close; all relay contacts include extensive RFI, ARC and lightning suppression
RS-232:	for local computer communications—33.6 Kbps
Modem:	for remote computer communications—33.6 Kbps
Video:	BNC connector for optional color camera
Programming Method:	via AccessBase 2000 software
Operating Temperature:	-22° to +149° F (-30° to +65° C)
Overall Size:	16.75 in H x 13.00 in W x 3.5 in D (426 x 330 x 89 mm)
Enclosure:	16 gauge powder coated steel cabinet; 16 gauge brushed stainless steel front panel
Accessories:	
GNC-1	gooseneck, curb mount
GNC-2	gooseneck, burial mount
TR-1000	trim ring for AE-1000
CCM-1	color camera kit for AE-1000/2000
CPDM-1	modulator kit for video option

AE-2000

Linear's
Executive
Multi-Tenant
Entry System
with Full
Access Control
for up to
Four Portals



- **Articulated, Double-Locking, Stainless Steel Front Panel**
- **Temperature Compensated, Back-lit VGA Resolution LCD Display; Back-Lit Keys**
- **Up to 10,000 User Capacity**
- **Built-in RF Receiver**
- **Many Installation Choices — Surface, Recessed, Gooseneck**
- **Built-in Modem for Remote Programming**
- **Programmable via AccessBase 2000 Software**
- **Four Independently Configurable Output Relays**
- **Built-In Access Control for up to Four Portals**
- **Network Ready**
- **Up to 256 Interconnected Portal Capacity**
- **Typical Applications Include Apartment and Condo Complexes, High Rise Buildings, Residential Communities, Industrial Complexes**
- **Access Control Functions, 32 Validation (security) Groups, 32 Time Zones, 32 Door Schedules, 32 Floor Schedules**

For more detailed
information about these
or any other Linear
products, go to
www.linearcorp.com

GENERAL SPECIFICATIONS

Input Power:	120 VAC 60 Hz
Operating Power:	12 or 24 VAC or VDC
Inputs:	
PBUS:	three sets for interconnection of up to six proprietary addressable devices
Wiegand:	two sets of Wiegand inputs for connecting 26, 30 or 31 bit Wiegand devices: each input supports two LEDs.
RF:	integral 318 MHz superheterodyne receiver (requires optional AE-1000 or AE-2000 antenna)
Request to Exit:	four normally open inputs; each input assigned to a specific relay
LEDs:	for configuration, status and troubleshooting
Display:	
Front Panel Display:	LCD technology, up to 24 individual lines
Size:	10.1 inch diagonal
Keypad Lighting:	individual back-lighting per key
Outputs:	
Relay:	four form "C" relays; all can be configured for open/close; all relay contacts include extensive RFI, ARC and lightning suppression
RS-232:	for local computer communications—33.6 Kbps
Modem:	for remote computer communications—33.6 Kbps
Video:	BNC connector for optional color camera
Programming Method:	via AccessBase 2000 software
Operating Temperature:	-22° to +149° F (-30° to +65° C)
Overall Size:	
Enclosure:	16 gauge powder coated steel cabinet; 16 gauge brushed stainless steel front panel with articulating double lock configuration
Accessories	
GNC-1	gooseneck, curb mount
GNC-2	gooseneck, burial mount
TR-2000	trim ring for AE-2000
CCM-1	color camera kit for AE-1000/2000
CPDM-1	modulator kit for video option

AM-3

Four-Portal
Access
Controller



- **Four General-Purpose Form “C” Relays for Main and Auxiliary Control Functions**
- **Networkable — Up to Eight Controllers and 256 Doors or Gates**
- **Compatible With Linear’s AE-1000 and AE-2000 Telephone Entry Systems**
- **Accepts Two 26, 30, or 31-Bit Wiegand Devices and Six Additional Addressable Remote Devices**
- **Lockable Plastic Enclosure for Indoor Use**
- **Optional NEMA 3R Enclosure for Outdoor Mounting**

GENERAL SPECIFICATIONS

Access Control:

32 Validation Groups
(Security Levels):

Validation Groups let user allow or deny access based on date/time (Time Zones), door (Door Schedule), or floor (Floor Schedule); 32 Time Zones, 32 Door Schedules, 32 Floor Schedules

Outputs:

Relay:

four form “C” relays; both can be configured for open/close; all relay contacts have extensive RFI, ARC and lightning suppression

RS232:

for local computer communications — 33.6 Kbps

Display:

Front Panel:

two 8-segment LED displays for system configuration, status and troubleshooting

INPUTS

PBUS:

three sets for connecting up to six proprietary addressable devices

Wiegand:

two sets of Wiegand inputs for connecting 26, 30, or 31 bit Wiegand devices; each Wiegand input supports two LEDs

Request To Exit:

four normally open inputs; each input assigned to specific relay

Door Status:

four normally closed inputs used to monitor the status of the device connected to the relay for a forced door/propped door alarm; supports auto-relock once the device is restored

Access Buttons:

four pushbuttons used to manually control each of the 4 relays

Tamper:

N/C tamper switch activates any time cabinet is opened.

LEDs:

for status, and troubleshooting

Power:

12/24 VAC or VDC; 16 VAC transformer included

Operating Temperature:

-22° to +149°F (-30° to +65°C)

Dimensions:

11.5 in L x 4 in W x 12.5 in H
(292 x 102 x 318 mm)

Memory:

10,000 users; each can have keypad, entry code, card or transmitter; 20,000 event transaction log; data stored in field upgradeable FLASH memory

Clock/calendar:

built-in 24-hour clock/calendar with battery back-up and daylight savings adjustment

Connections:

all connections grouped together in neighborhoods for ease of installation and maintenance

Enclosure:

plastic cabinet suitable for indoor use; secure with lock/key (included) or screws

Standard Equipment:

AM-3 four portal access control system accepts two Wiegand inputs and up to six remote devices

Optional Equipment:

ACM-1:

plug-in 33.6 Kbps modem for remote (dial-up) communications.

MIO Interface Module:

multiple input/output modules for monitoring and control of additional points; can also be used for elevator control (call for availability)

CAB-3:

lockable NEMA 3R enclosure for mounting the AM-3 outdoors

ACCESSORIES

AM-RRR

Remote Radio
Receiver

AM-RPR

Remote RF Based
Proximity Receiver

AM-PR

Proximity Reader



AM-RRR

- Add RF Capability to AM-3
- Weather-Resistant Housing
- Integral Gain Control
- Compatible with all Megacode Transmitters

AM-RPR

- Three Inch Read Range
- Compatible with all Megacode Transmitters
- Includes Status LED

AM-PR

- 26-Bit Wiegand Output
- Weather-Resistant
- Vandal Resistant
- Supports up to 65,000 Cards
- Status LED

GENERAL SPECIFICATIONS

AM-RRR

Power:	supplied by access controller
Connection:	six wire connection via PBUS
Indicator:	red/green status LED
Gain Control:	potentiometer for range adjustment
Wiring:	up to 500 feet with 20 AWG, 300 feet with 24 AWG

AM-RPR

Power:	supplied by access controller
Connection:	six wire connection via PBUS
Indicator:	red/green status LED
Range:	up to three inches
Wiring:	up to 500 feet with 20 AWG, 300 feet with 24 AWG

For more detailed
information about these
or any other Linear
products, go to
www.linearcorp.com

AM-PR

Power:	9-14 VDC, 90 mA maximum
Reading Distance:	up to 6 inches (AM-PC); up to 5 inches (AM-PT)
Prox Tag Operation:	passive
Output:	Wiegand
Wiring:	five to seven conductor, 20 gauge shielded, 500 feet maximum

AM-CRI

Card Reader
Interface

AM-KP

Exterior Keypad

AM-KPI



AM-CRI

- Provides Two Additional Wiegand Inputs for AM-3
- Point Addressable

AM-KP (EXTERIOR KEYPAD)

AM-KPI (INTERIOR KEYPAD)

- Same Physical Features as AK-1, AK-2
- One-to-Six Digit User Selectable Codes
- AM-KPI Includes Designer Bezel Kit
- Can Be Located 500 Feet from AM-3

GENERAL SPECIFICATIONS

AM-CRI

Power:	supplied from AM-3, AE-1000 or AE-2000
Capacity:	up to two 26 or 31-bit Wiegand devices
Programming:	Internal switch selects device output address
Wiring:	
To Controller:	six wire PBUS wiring—up to 300 feet (24AWG); 500 feet (20 AWG)
To AM-CRI:	six wires for readers with two LEDs , five wires for readers with one LED

AM-KP and AM-KPI

Wiring:	six wire PBUS wiring—up to 300 feet (24AWG); 500 feet (20 AWG)
Operating Temperature:	-22° to +149° F (-30° to +65° C)
Materials:	
AM-KP	cast aluminum housing with stainless steel keys
AM-KPI	stainless steel faceplate and keys

**MDT-1B,
MDT-2B,
MDT-4B,**
Custom Block
Coded



**ACT-21B,
ACT-22B**
Custom Block
Coded



**MT-1B,
MT-2B,
ACT-31B,
ACT-34B**
Factory Block Coded
Transmitters



MDT-1B, MDT-2B, MDT-4B; ACT-21B, ACT-22B

- Compatible with all Linear Access Receivers
- Custom Coded to your Specification
- Lithium Battery Powered
- Up to Five Year Battery Life

MT-1B, MT-2B, ACT-31B, ACT-34B

- Compatible with all Linear Access Receivers
- Factory Coded with more than 1,000,000 ID Codes
- Factory Coded with one of 15 Facility Codes
- Up to Five Year Battery Life

For more detailed
information about these
or any other Linear
products, go to
www.linearcorp.com

WOR

Wiegand Output Receiver



- **Easy Way to Add Radio Transmitter Access**
- **RF Input/Wiegand Output Receiver Supports 26, 30, or 31-Bit Data Formats**
- **Compatible With MegaCode Format Transmitters, Available With Block Coding**
- **Field Adjustable Read Range — From 5 to 500 Feet**
- **Weather-Resistant Case**
- **Facility and ID Codes Tailored to System Requirements**

GENERAL SPECIFICATIONS

Radio Frequency:

Frequency:	318 MHz
Bandwidth:	300 KHz minimum
Image Rejection:	40 dB
LO Reradiation:	200 μ V/meter @ 3 meters (maximum)
Data Format:	MegaCode
Sensitivity:	-100 dBm minimum
Desensitivity:	20 dB manual attenuation at the antenna input

Inputs:

Power:	terminal block input "+" and "Gnd"; input voltage operation 5 Vdc regulated or unregulated between +6 to +24 Vdc with reverse polarity protection
Hold:	terminal block input "Hold"; follows standard Wiegand hold line conventions; hold line can be overridden via DIP switch
Antenna:	9-1/2 inch whip antenna with F-connector (supplied)

Outputs:

Data: terminal block output "Data 0" and "Data 1"; standard Wiegand electrical and protocol interface

LEDs:

red RF activity LED indicates RF activity at 318 MHz; red/green decode LED is green during Wiegand data transmissions and receiver hold timing window (if enabled) after any output transmission, otherwise it is off unless hold enable is selected, in which case LED will remain red until hold is removed by host system

Controls:

Pushbutton: momentary switch labeled "Program" used to configure microprocessor after system option selection and configuration

DIP Switches:

Receiver Facility Code: four positions to select 1 of 16 possible MegaCode facility codes; if code 0 is selected, the receiver will validate any received facility code; any other selection requires the transmitters' facility code to match the receiver facility code selection for validation

Output Facility Code: 16 positions to select one of 65,536 possible facility codes; a selected output format may not use all 16 bits

Output Format: 3 positions for selecting either 26-bit, 30-bit, or 31-bit Wiegand output format

Button Disable: 5 positions, each corresponding to 1 of 5 possible MegaCode transmitter buttons — left or top left, right or top right, bottom left, bottom right, top

Receiver Lockout Disable: 1 position, if set to ON, the 1 second receiver lockout is not performed

Button Offset: 1 position; if set to ON, the transmitter ID number is offset with a number based on which button is pressed:

Button	Offset
Left	0
Right	16384
Bottom Left	32768
Bottom Right	49152

Enclosure:

weather-resistant, anodized aluminum enclosure with removable end caps to provide wiring and programming access; end caps secured with screws

Operating Temperature:

-22° to +155°C (-30° to +70°F)

Electrical:

robust RFI and ESD protection for all inputs and outputs, including antenna input; protection to prevent output errors during brownouts

Wiring:

five conductor cable up to 300 feet, BELDEN 9929 or equivalent (24 AWG); up to 500 feet, WEICO 9404 or equivalent (20 AWG)

Available Accessories:

Antennas: EXA-1000: remote, omnidirectional; including mounting hardware and five feet of cable
EXA-2000: remote, directional-type; including mounting hardware and ten feet of cable



Linear®

2055 Corte Del Nogal

Carlsbad, CA 92009

(760) 438-7000

(800) 421-1587

Fax (800) 468-1340

www.linearcorp.com