Linear Personal Emergency Reporting Solutions

Systems Kits

Transmitters

Accessories

Linear®
Building On Innovation.

Linear was established in 1961 as a manufacturer of radio controls. Over the next five decades, an unrelenting dedication to quality has turned it into the most trusted name is everyday technology. To learn more about Linear's full product line, visit www.linearcorp.com.

Long known for pioneering radio frequency in everyday use, Linear now combines passive infrared detection, digital electronics, and human engineering for a full range of products. Today, Linear opens your gates, your garages, and your front doors. You walk through Linear. You talk through Linear. You trust Linear every day.

Linear's prevalence across America is simply unprecedented. Hundreds of thousands of people use Linear products every day without even knowing it. Backed by the industry's best warranties, a network of qualified integrators and installers, and unrivaled electronic solutions know-how, it's no wonder that Linear continues to lead the industry forward.

Linear combines the latest in technology with simplicity and elegance. From gate operators to intercom systems to high-definition video distribution, these are innovations that are designed to make your life easier. These are innovations that make your life better.

Health & Wellness

Linear's Health & Wellness Division designs and manufactures health and safety technologies that enhance patient care, improve patient management and accountability, and reduce costs.

Extending professional and wellness care into the home, its award-winning PERS line includes a full selection of consoles, transmitters and accessories. With a 30-year history of designing personal safety devices, Linear is the leading PERS manufacturer, and the brand preferred by more of the nation's top Emergency Service providers. The company works with and services customers on an individual basis to assist their business growth, providing tailored, value-added services. Full PERS training is available through Linear University.

For customized healthcare products, large healthcare institutions or organizations can turn to Linear's OEM Solutions team. Linear brings to bear its complete infrastructure – design and engineering teams; manufacturing facilities; logistics and distributions centers – to scale new products from prototype through full production.
Beyond Home Healthcare, Linear's Access Control and Security systems for commercial facilities protect outdoor entries, gates, windows, doors and perimeters, with systems that range from single-door locksets, to outdoor CCTV video, to PC and web-based network access systems for thousands of users.

Please visit **www.LinearHealth.com** for more information.

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PERS-4200
Personal Emergency Reporting System

PART # SSC00079

The PERS-4200 brings forth a new generation of Personal Emergency Reporting Systems and delivers advanced features and options to suit any client needs. Field selectable English/Spanish language prompts, an optional plug-in wireless remote speaker/microphone option and an optional plug-in 3G cellular module make the PERS-4200 Linear's most advanced Personal Emergency Reporting Console.

Features:

All of the features found in the PERS-2400B and PERS-3600B

- Enhanced Passive Alerts summon help even with the subscriber can't press their button
- Built-in temperature monitor for high and low temperature alerts
- Illuminated "HELP" button is easier to see at night
- Pre-recorded reminder messages promote use and simplifies set-up
- Speakerphone Mode of operation
- Remote Call-in Speakerphone operation
- Up to 1000 feet of radio range when paired with Linear's new DXS-LRx Series transmitters
- Upgradeable firmware keeps the console current
- System event log (100 events) can be downloaded by the PERS Provider
- 24-hour (minimum) back-up battery via Nickel Metal Hydride battery
- Load shed battery saver circuit improved service life and prevents battery damage during long power outages
- Quick-learn and remote access transmitter enrolling capability
- Selectable two-way voice activation by channel
- Programmed with free PERS-4200 software (download at www.linearcorp.com)
- Optional plug-in RF based remote speaker/microphone module
- Optional 3G plug-in GSM module
- Overall Size 6.4 in L x 6.3 in W x 2.75 in H (163 x 160 x 70 mm)

DATA/VOICE MODULE
Plug-in GSM Cellular Interface Module

Ordering Part Number AAE000462

Features:

- 3G data transmission format
- AT&T system approved
- Data transmission with 2-way voice communications
- Plugs into dedicated Data/Voice port on the PERS-4200
- Can be added to the PERS-4200 after initial system placement
- Note: Contact your Linear Health & Wellness team for a list of Central Stations that are compatible with the Linear Data/Voice Module module
- Programs via RA-4200 software
- Competitive monthly charge for cellular service

RSM-MODULE
RF based Plug-in Remote Speaker/Microphone Kit Bay Station

RSM-WALL-STN
Wireless Remote Speaker/Microphone Module Only

Ordering Part Number
AAE00452 Remote Speaker and Bay Station Kit
AAE00454 Additional Remote Speaker Module

Features:

- Base station supports up to four remote speaker/microphone devices
- Base station plugs into PERS-4200 console
- Concealed line cord on the remote speaker allows for wall or tabletop mounting
- Remote Speaker/microphone device duplicates all of the voice functions found in the PERS-4200
- Compact unobtrusive design

PERS-2400B

Personal Emergency Reporting System

PART # SSC00062B

The PERS-2400B Console is the foundation of one of the most successful and durable emergency reporting and medical alert systems available. Designed for use with Linear's DX and DXS wireless personal transmitters and accessories, the table-top or wall-mount system Console provides pushbutton emergency assistance. With the optional VB-4B voice board, the PERS-2400B combines a powerful speaker and sensitive microphone for superior two-way voice communication throughout the home.

Features:

- Manual override to ensure best 2-Way voice performance in all ambient environments, controlled by Central Monitoring Station
- Braille characters for emergency, home, and clear functions
- Alarm tones provided for emergency, fire and CO alarm conditions
- Silent alarm capability (as panic button for domestic violence applications)
- Selectable inactivity reporting: 8, 12, or 24 hours
- Single telephone seizure and true phone line seizure capability (see RJ-31X Telephone Adapter)
- Capacity for up to 16 DX/DXS transmitters
- Point ID communicator reporting
- Programmable with Windows-based RA-2400 Software
- Installs in minutes; temporary or permanent locations
- Optional two-way voice capability with the addition of the VB-4B Voice Board
- Field enabled status reporting and zone supervision
- UL Listed per standard 1637 and as Single Station Smoke and CO Alarm Accessory, file S2499
- Operating frequency: 315 MHz
- Backup battery size: 12 volts, 1.2 amp/hour (32-hour backup)
- 7.5" W x 8.75" H x 3" D

Linear's PERS kits provide a complete package that is ready to program and ready to install. Each kit includes a console with 2-way voice capability, the back-up battery, a phone line cord, and a Linear DXS-LRC transmitter.

PERS-4200 KIT

ORDER # SSC00072

Includes all of the following items:

- PERS-4200 Console
- 12 VDC Rechargeable Battery (installed)
- Telephone Cord
- DXS-LRC Supervised Long Range Pendant/Wristband Transmitter (learned into console)

PERS-2400 KIT

ORDER # SSC00078

Includes all of the following items:

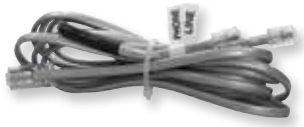
- PERS-2400B Console
- VB-4B Two-way voice board (installed)
- 12 VDC Rechargeable Battery (installed)
- Telephone Cord
- DXS-LRC Supervised Long Range Pendant/Wristband Transmitter (learned into console)

216113-04

Replacement Telephone Cord

ORDER # 216113-04

- Ten Foot Cord



232378-01

Replacement Power Supply for PERS-4200

ORDER # 232378-01

VB-4B

2-Way Audio Module with Voice Prompts

ORDER # AAE00419B

- Digitally synthesized voice sounds system prompts
- Adjustable volume
- 2-Way audio with the Central Station
- Remote speaker and microphone supported

228844

Back-up battery for PERS-4200

ORDER # 228844

- Rechargeable Nickel Metal Hydride battery
- Provides 24 hours of back-up power

100104

Back-up battery for PERS-2400B

ORDER # 100104

- Rechargeable Sealed Lead Acid Battery
- Provides more than 24 hours of back-up power

Accessories for Linear Personal Emergency Reporting System Products

The DXS-LRP Long-Range Pendant and DSX-LRW Long-Range Wristwatch Transmitters are the latest in style and easy wear in the Linear line of Personal Emergency Transmitters. Updated designs, plus many new features, promote full-time use.

Smaller, sleeker, more attractive and lighter weight, the transmitters are 20 percent more powerful than previous pendants, supplying the maximum output allowed by the FCC for improved transmission reliability and range.

The DXS protocol devices are compatible with Linear's existing and future generations of PERS Consoles and alarm panel systems.

Features:

- Increased output power while maintaining FCC compliance
- Improved transmission range—up to 1000 feet with the PERS-4200 Console
- Recessed activation button helps prevent accidental transmissions
- Shock and water resistant (up to 30 minutes at a depth of three ft)
- Full RF supervision (after August 1, 2013)
- Two-color visual activation indicator
- Unique transmitter code printed on the transmitter, the packaging, and the labels for field enrolling with PERS-4200 console
- Warranted for two years
- UL listed

Specifications:

DSX-LRP Long-Range Pendant

- Dimensions: 1.25" W x 2.0" H x 0.375" D
- Weight: 0.33 oz (9.45 grams)
- Color: White with black lanyard
- Order number: **SST00122 (white) SST00126 (black)**

DSX-LRW Long-Range Wristwatch

- Dimensions:
  Transmitter: 1.125" W x 1.7" H x 0.375" D
  Adjustable band: 6.25"- 8.25" length
- Weight: 0.34 oz (9.65 grams)
- Standard 18mm watch band pins
- Color: Black with black wrist strap
- Order number: **SST00123**

DSX-LRC Long-Range Convertable Transmitter

- Dimensions:
  Transmitter: 1.3" W x 1.8" H x 0.375" D
- Weight: 0.45 oz (12.6 g) in pendant configuration
  0.38 oz (10.8 g) in wrist configuration
- Standard 18mm watch band pins
- Order number: **SST00124**

DXS-65
Supervised Emergency Alarm Transmitter

PART # SST00121

The Model DXS-65 is a water-resistant emergency alarm transmitter designed for use in emergency reporting applications. Place the transmitter on the nightstand or in the bathroom, to offer additional emergency or panic button options – in case the personal pendant transmitter is out of reach when needed.

Features:

- Water-resistant
- Large, easy-to-find HELP button
- Optional aqua-colored pushbutton included
- Visual activation indicator
- Full RF supervision, field enabled
- Long-life lithium batteries
- DXS format
- 2.5” W x 3” H x 0.6” D

Table-Top

Wall-Mount

Optional Aqua Pushbutton

DXS-73
Supervised Photoelectric Smoke Detector Transmitter

PART # SST00113

The Model DXS-73 Supervised Photoelectric Smoke Detector Transmitter is a photoelectric smoke alarm with a built-in transmitter designed for use with Linear’s DXS and DX format receivers and PERS consoles. When smoke is detected, the detector sounds a loud local alarm. Twenty seconds after the local alarm sounds, the built-in transmitter sends a digitally coded wireless signal to its companion receiver. The wireless signal will be repeated every 20 seconds as long as smoke is still present.

Features:

- Photoelectric-type detector
- Alarm, status, and low-battery transmissions
- Built-in 85 dBA sounder
- UL, CSFM, and MEA listed
- DXS format
- 5.375” W x 5.375” H x 2.25” D

DXS-80
Supervised Carbon Monoxide Detector Transmitter

PART # SST00116

The DXS-80 Supervised Carbon Monoxide Detector Transmitter is a UL Listed*, single-station carbon monoxide alarm with a built-in supervised transmitter designed for use with Linear’s DXS and DX format receivers and PERS consoles. The DXS-80 provides a warning to alert against both the acute and chronic effects of carbon monoxide (CO) poisoning.

Features:

- Electrochemical-type detector
- Alarm, status, and low-battery transmissions
- One 3-volt lithium battery supplied
- Two status indicators
- Built-in 85 dBA sounder
- UL Listed*
- DXS format
- RF frequency: 315 MHz
- 5.375” W x 5.375” H x 2” D

*NOTE: The DXS-80 is currently UL Listed for use with the Linear PERS Consoles only. It has not been tested by UL with other compatible Linear receivers

Add even more versatility to your Personal Emergency Reporting System with the addition of Linear transmitters that add even greater capability to the system. The DXS-31 can be configured to give either an activity confirmation or an emergency alarm. The DXS-54 passive infrared motion detector provides further confirmation of activity within the subscriber's home. Complete programming instructions for the various different applications are clearly indicated in the PERS-2400, PERS-3600 and PERS-4200 installation instructions.

DXS-31
Supervised Universal Door/Window Transmitter

ORDER # SST00073

The Model DXS-31 Supervised Universal Door/Window Transmitter is a battery-powered stationary transmitter designed for use with Linear's DXS and DX format receivers and PERS consoles. In PERS installations, depending on programming, the DXS-31 functions to reset the PERS activity timer or trigger an emergency alarm. The transmitter can be triggered by the built-in magnetic switch or an external switch.

Features:

- Alarm, alarm restore, supervisory and low battery transmissions
- Includes magnet for internal contact
- Includes mounting shoe
- External contact terminals
- DXS format
- N/O or N/C input loop circuit
- Powered by 2032 two lithium batteries (included)
- Optional 2450 lithium batteries can be used for extended life
- RF frequency: 315 MHz
- 1.5" W x 3.3" H x 0.88" D

DXS-54
Supervised Passive Infrared Motion Detector Transmitter

ORDER # SST00074

The Model DXS-54 Supervised Passive Infrared Motion Detector Transmitter is a battery-powered passive infrared motion detector with a built-in transmitter designed for use with Linear's DXS and DX format receivers and PERS consoles. In PERS installations, the DXS-54 functions to reset the PERS activity timer. When the passive infrared sensor detects motion in its field of view, the transmitter sends a digitally coded wireless signal to the PERS console.

Features:

- Activity timer reset, supervisory, and low-battery transmissions
- Walk-test mode
- Fresnel lens with 24 facets
- Battery saver circuitry
- 9-Volt alkaline battery supplied
- DXS format
- RF frequency: 315 MHz
- 3.2" W x 4.4" H x 1.75" D

232356-01
Breakaway Lanyard Assembly for DXS-LRC Transmitter

ORDER # 232356-01

- Direct replacement for the DXS-LRC transmitter
- Includes snap-in mounting assembly

232357-01
Wristband Assembly for DXS-LRC Transmitter

ORDER # 232357-01

- Direct replacement for the DXS-LRC transmitter
- Includes snap-in mounting assembly

RA-2400
Programming Software, PERS-2400B

RA-4200
Programming Software, PERS-4200

Available via download at **http://www.linearcorp.com/downloads.php**

The RA-2400 and RA-4200 Remote Access software is a communications program designed to work with Linear's Personal Emergency Reporting System. The software runs on an IBM PC or compatible computer and connects to the console through the standard telephone network, or to the Console directly, with the computer's modem. This software runs under most versions of the Windows™ operating system.

Technical Services is the group within Linear LLC that administers Continuing Education Unit (CEU) activities, courses, and programs. Technical training ensures the education and meets the goals of the dealers, distributors, and others who sell the Linear LLC branded products.

The technical training manager reviews the policies and procedures and ensures they meet accreditation requirements for CEUs. Linear LLC accredits their training through the National Burglar & Fire Alarm Association (NBFAA) service of the National Training School. The review process for every program occurs every two years at a minimum.

Linear will ensure the training provides adequate resources to support a positive learning environment. Instructors will be available to provide assistance and support to students. When students meet the requirements for satisfactory completion of the training program, they are issued a certificate that indicates the title of the program, the name of the instructor, and the number of CEUs for the program.

Linear training is provided by qualified personnel with many years of experience in the field and competence in their topic of instruction. They also have knowledge and skill in instructional methods and learning processes. Feedback is encouraged and collected. Linear offers three types of training through learnlinear.com

Type 1: Instructor Lead Training—On-Site Training
We have product trainers and a sales management team who travel the U.S. to provide training at your facility or at a local distributor. This is a more traditional, classroom-style training option.

Type 2: Instructor Lead /Computer-Based Training
A product trainer remotely teaches a course using teleconferences and computer software to present the material. Since a live instructor is leading the training, these classes are scheduled.

Type 3: Self-Paced Training—Computer-Based
This is similar to taking online college classes. From the convenience of either home or office, you can take classes at your own pace and return to previous sessions should you need to stop mid-class. If you have any questions, feel free to e-mail at: **techsupport@linearcorp.com** or call **1.800.421.1587** and ask for our training manager.

Linear's Technical Services Department provides telephone support for our expanding product line. The group supports nearly 2,000 products in various types of installations and applications. Application engineers can assist dealers and installers with their technical questions regarding every Linear product.

The application engineers answer questions regarding equipment installation, programming, system design, troubleshooting, and inter-system compatibility. Questions could be about radio controls, security systems, access controls, door operators, gate operators, audio or video equipment, and accessories. Often, installers simply need fast help with their installation issues so they can complete the job and continue on to the next iinstallation. Linear's quality and professional technical support staff provides that service.

The new extended Technical Services Department telephone service hours (5:00 AM to 4:30 PM Pacific Time) will be of value to nationwide installers and company representatives alike. West Coast callers will be able to call as early as 5:00 AM local time, and East Coast callers will be able to call as late as 7:30 PM local time.

Linear Technical Services provides direct access to the people who know Linear products best. To speak with a Linear expert, call **1.800.421.1587** and **press 3**.

To streamline order fulfillment and shorten delivery time for Linear distributors and dealers, Linear LLC maintains two fully stocked regional distribution facilities in Vista, California, and Summerville, South Carolina.

Linear's Western Distribution Center has 90,000 square feet with 19 shipping docks. Linear's Eastern Distribution Center boasts 175,000 square feet with 25 shipping docks and is the third largest UPS shipper in the Charleston, South Carolina, area.

Both warehouse locations are completely equipped with shipping, receiving, and quality control facilities, and they each stock tens of thousands of Linear products for security, entry systems, communications, audio/video/data, central vacuum systems, and personal emergency response. Each warehouse team receives dozens of cargo containers each month, processes hundreds of orders daily, and ships thousands of packages with Linear goods to worldwide destinations each day.

Sound plans implemented with quality products and solutions to support them are critical to success in today's competitive global business environment. With a state-of-the-art manufacturing facility in China, Linear uses industry-leading manufacturing technologies that enable production of quality products that consistently raise the standard in home technology and provide a value you can depend on in today's competitive marketplace.

High-performance production tools, advanced technologies and techniques in design and testing, integrated circuitry, microchip, and surface mount technology, as well as the latest electronic component assembly and quality assurance techniques are features you can depend on from Linear manufacturing. Linear's Hong Kong manufacturing operation boasts a staff of more than 1,300 and is ISO 9001:2000 and ISO 13485 quality system certified.

Linear **Order Information**

Sales Department:

5:00 AM — 4:30 PM (Pacific Time) Monday through Friday.

By Phone: **1 800 421 1587**
By Fax: **1 800 468 1340**
By Web: **linearcorp.com**
By Email: **sales@linearcorp.com**

Technical Support for Dealers & Installers:

5:00 AM — 4:30 PM (Pacific Time) Monday through Friday.

By Phone: **1 800 421 1587**
By Fax: **1 760 438 7199**
By Web: **linearcorp.com**
By Email: **techsupport@linearcorp.com**

These Linear products are available nationwide at hundreds of conveniently located local distributor branches. These innovative products are available where you need them and when you need them, making Linear the natural choice for your personal emergency solutions.

Linear Personal Emergency Solution products are distributed by:

UL1637 LISTED

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