SALCO™

LONG-RANGE SUPERVISED-WIRELESS SECURITY SYSTEMS

2002 CATALOG 120

SALCO™

LONG-RANGE SUPERVISED-WIRELESS CATALOG 120

SPECIALISTS IN ELECTRONIC SECURITY, CONTROL, AND HIGH FREQUENCY WIRELESS COMMUNICATIONS.

PROFILE OF A LEADER

SALCO was founded in 1971. The company recently moved into its new design and manufacturing facility located in beautiful Sarasota, Florida. The company continually has new products under development and introduces an average of three new products each operating quarter. With its leading edge design and manufacturing capabilities SALCO takes its products all the way from conception to production. The SALCO design team uses state-of-the-art CAD systems. Manufacturing uses the most modern surface-mount technology available.

We excel in developing solutions to demanding customer requirements. Key to our success is our highly capable design and development team. Our new state-of-the-art research and development laboratory is equipped with computer development instruments to test and qualify the performance of our products to customer requirements. Everyone at SALCO prides themselves on delivering high quality products, on time! We welcome you to call our technical support team for technical assistance for your applications or our well informed sales personnel for orders and quotations. SALCO is customer-committed. So call us. Tel: 941-377-7717 or Fax: 941-379-9680.

CORPORATE MISSION STATEMENT

1. To provide the Industrial, Commercial, and Governmental communities with quality products with cost-effective solutions to meet security, control, and high frequency communications system requirements.

2. To accurately advertise and present our products to our customers so they can order from us with confidence.

3. To provide the highest level of customer service, before, during, and after the sale.

4. To provide employment opportunities to our associates consistent with their skills, educational qualifications, and career aspirations.

5. To provide a work environment that is clean, safe, and pleasant.

6. To provide for the human needs of our associates by providing competitive wages and benefits during the period of their employment with the company.

SALCO

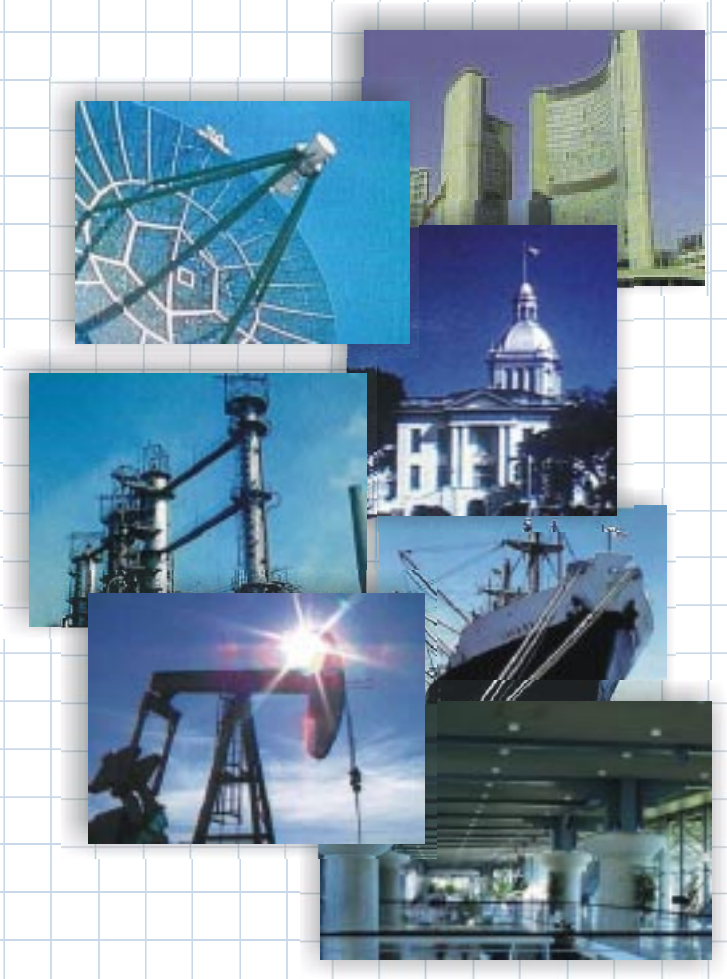
SALCO INDUSTRIES: AN OVERVIEW

SALCO is proud to present one of the world's broadest lines of long-range supervised-wireless problem-solving systems. SALCO is firmly committed to technical innovation and views research and development as a crucial function of its operations, consequently, the proven end results are cost-effective, high quality, and reliable products. There is a wealth of new systems and enhancements to many of our proven systems. As you become familiar with this catalog you will see testimony to our steadfast commitment to providing only the best, cost-effective solutions for your system needs.

SALCO delivers turnkey system solutions for demanding security, and control applications that were previously cost prohibitive or even impossible to do. Our customers have come to rely on SALCO to deliver the most advanced wireless and wired systems with quality, reliability, flexibility, and cost-effectiveness. We have a 31 year track record in delivering only the best.

SALCO IN THE REAL WORLD

Security Systems, Industrial Control Systems, and Voice Reporting Systems constitute the major portion of SALCO products. SALCO range of products satisfy the needs of industries such as Hospitals, Railroads, Electric Utilities, Schools, Museums, Industrial, Government, Mining, Shopping Malls, Pipelines, and Marine. Given the proven performance of SALCO systems for customers such as the U.S. State Department, Smithsonian Institute, Library of Congress, McDonnell Douglas Corp., and Niagara Mohawk Power Corp., SALCO is rapidly emerging as a leader in Wireless Security and Control technologies.



Long-Range Supervised-Wireless Security Systems

Transmitters

Man-Down Transmitter

Receiver Processors

Wired and Solar Powered Digital Repeaters

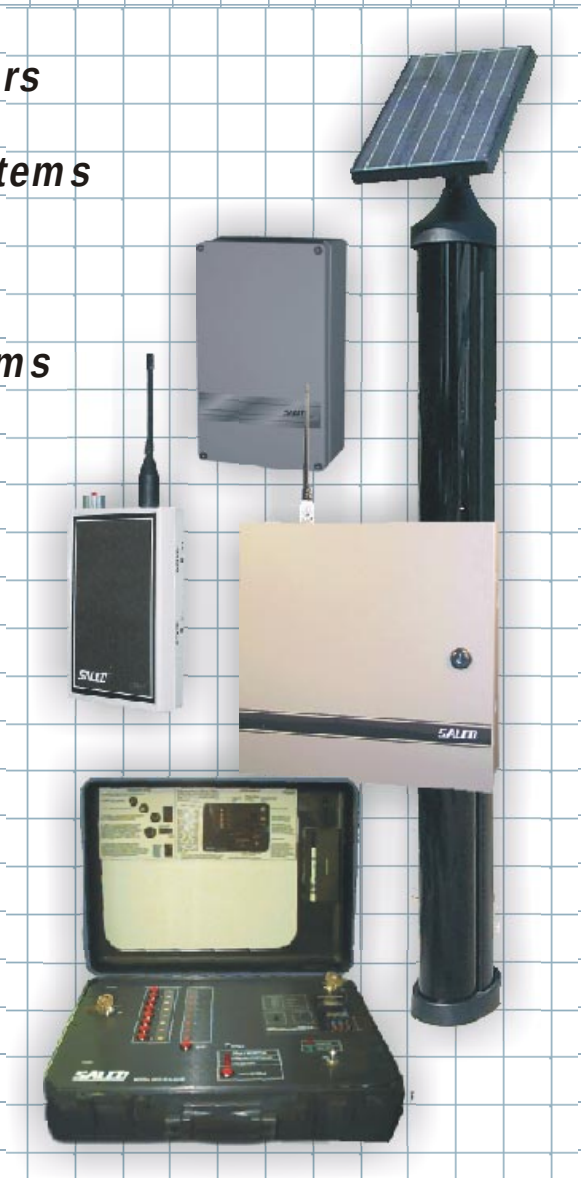
Rapid Deployment Portable Security Systems

Solar Powered Emergency Systems

Solar Powered Perimeter Security Systems

Long-Range Wireless Accessories

Voice Reporter System



INTRODUCTION

SALCO delivers reliability and readiness for your security and industrial control applications with systems capable of employing UHF and VHF transmitters with with operating ranges of up to five miles from transmitter whip antenna to receiver whip antenna. Up to fifteen miles can be realized employing greater antenna heights and directional antennas. Unlimited distances are possible employing SALCO Digital Repeaters.

Less equipment is required for your systems than ever before with systems designed specifically for high reliability, low maintenance, installation simplicity, and enabling you to see the real time status of all sensors at a glance. A display lamp for each sensor monitored will illuminate when violated and remain illuminated until restored. When multiple sensors are violated you will be able to see all of them illuminated, simultaneously. You will be able to see, at a glance, which sensor transmitter has developed a low battery condition. A polling signal is sent by all transmitters reporting their functional presence in the system, and their sensor's status whether in the normal or violated state.

The system can be employed as a stand-alone proprietary system and can easily interface directly to your host system with optional output relay contacts per remote sensor monitored, it literally takes minutes to install.. Multiple transmitters can be employed for a given receiver processor to form a supervised-wireless network with high operational integrity and uncommon flexibility. Several receiver processors are available for diverse applications.

FCC licensing is required by the user for operation in the U.S.A. when employing any SALCO long-range supervised wireless systems.

Supervised-Wireless System Features

The success of the Salco's long-range supervised-wireless system since it's introduction in 1984 is attributed to the following most significant supervised features:

1. The system monitors the real-time true sensor status of all remote sensors simultaneously!

Application example: doors being monitored.

Whenever a monitored door opens, the LED lamp designated for that door is illuminated on the receiver and remains illuminated. Whenever the door closes again the LED lamp extinguishes.

2. The system monitors the condition of all the batteries in all the remote sensor transmitters.
When a battery needs to be replaced the transmitter sends a signal to the receiver which illuminates it's respective LED lamp identifying the transmitter which requires a new battery.

3. Automatic test signals are sent periodically from all sensor transmitters to the receiver processor to verify the operational capability of the radio data link.

In the event of a communication failure from a transmitter the receiver pinpoints the offending transmitter by illuminating it's respective LED lamp.

4. The system displays the true sensor status of each remote sensor, simultaneously, on a unique matrix LED display, or on custom displays.

General Description

Keyboard Programming
- *Entry Alert Audible,*
- *Group Bypass, and*
- *Auto Test Programming*

Combination Code Programming
Timer Programming via the keyboard
Digital Communicator Output Programming
Master Output Relay Programming
Hard-wired Loop Programming
Front Panel Display and Control Features:
- *Matrix Display*
- *Seven Segment Display*
- *Sensor Bypass LED's*
- *Instant/Delay Button*
- *Instant/Delay LED's*
- *System Control LED's*

Diagnostic Features:
- *Track & Trace Alarm Memory Feature*
- *Transmitter Low Battery Diagnostic*
- *Transmitter Automatic Test Diagnostic*
- *Power Supply Diagnostic*

Other Included Features:
- *Individual Sensor Bypassing with keypad*

SALCO long-range supervised-wireless transmitters provide a reliable and cost-effective means of transmitting condition or event data to a remote site located up to five miles. Unlimited distances are possible employing SALCO digital repeaters. FCC licensing is required by the user for operation in the U.S.A. Special operating frequencies are available.

Transmitters are available in one, two or four zone models to monitor user supplied sensors which detect, for example, intrusions, temperature limits, fluid levels, proximity magnetic sensors, flow sensors, and almost any other user-supplied sensor with normally open or normally closed contacts. Unlike conventional non-supervised systems, the transmitters, along with their supervised receiver processor counterpart, supervises the RF link and each transmitter's power source to maintain a high degree or readiness and reliability. In addition, the real-time signaling ability of each transmitter allows for individual sensor status display and control at the remote receiver processor location. Since the transmitters draw only microamperes of quiescent current they are capable of being powered by solar power. Custom designed solar power supplies are available for various current requirements. Consult the factory for your solar powered application requirements.

APPLICATIONS

- Rapid deployment portable security
- Emergency Call Box Systems
- Object Security in Museums
- Roving Vehicle Surveillance
- Police Surveillance
- Courtrooms
- Hospitals
- Oil Platforms
- Construction Sites
- Marinas
- Railroad Yards
- Department Stores
- Malls
- Psychiatric Institutions
- Pumping Stations
- Vehicle Gate Access

HST series transmitters provide a reliable and cost effective means of transmitting condition or event data to a remote site located miles away. Unlike conventional non-supervised wireless systems, the HST transmitter along with its supervised-wireless receiver the SR-768LRM, supervises the RF link and each transmitter's power source to maintain a high degree of readiness and reliability. Also, the real time signaling ability of each transmitter enables individual sensor status display and control at the remote receiver location. Other notable engineering milestones include extremely low micro ampere quiescent current drain which allows for practical battery or solar powered operation as well as long backup times in instances of primary power failure. Some applications the HST is ideally suited for are facilities management where several buildings must be linked to a central site such as universities, museums, construction sites, personnel protection, pipelines, fences, pumping stations, yacht security, police stake-outs, and parking lots.

Networking several building alarm systems to one site.

LONG-RANGE TRANSMITTERS

HST-1PDM Single Zone Transmitter

HST-2PDM Two Zone Transmitter

HST-4PDM Four Zone Transmitter

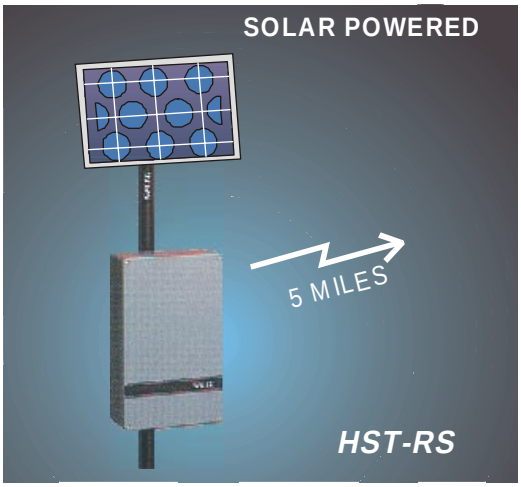
The HST-PDM transmitter is available for one, two or four zone applications and comprises the HST transmitter, an uninterruptible power supply mounted in a metal enclosure, and a lead -acid rechargeable backup battery. Installation is extremely simple. Attach the metal enclosure to a wall, connect your sensor's output contacts, connect the whip antenna, insert the class II transformer supplied, and you are done! HST-PDM transmitters require a model 103 whip antenna in the UHF or VHF frequency range. Physical dimensions are 11.25" x 11.25" x 3.5" (28.6cm x 28.6cm x 8.9cm).

HST-1RM Single Zone Transmitter

HST-2RM Two Zone Transmitter

HST-4RM Four Zone Transmitter

The HST-RM transmitter is available for one, two or four zone applications and comprises an HST transmitter, and an uninterruptible power supply all mounted in a NEMA weatherproof enclosure. A Class II power transformer is inserted into an uninterruptible 120 Volts 60 Hz receptacle. Dimensions of the outdoor radome enclosure are 15.74" x 9.84" x 4.72" (39.98cm x 25cm x 12cm).



HST-1RS One Zone Solar Powered Transmitter

HST-2RS Two Zone Solar Powered Transmitter

HST-4RS Four Zone Solar Powered Transmitter

The HST-RS system is a solar powered system available for one, two or four zone applications, and which comprises a solar panel, an HST transmitter with a functional range of up to five miles, a solar panel power supply and power controller mounted in a NEMA weatherproof enclosure. The mast is not supplied. Consult the factory for the type of solar panel power supply required for your specific applications and sun exposure. Almost any type sensor with a dry contact output will activate the transmitter. Physical dimensions of the solar panel are 14.2" x 13.3" x 1.5" (36.07cm x 33.78cm x 3.81cm). Dimensions of the enclosure are 15.74" x 9.84" x 4.72" (39.98cm x 25cm x 12cm).

Popular applications include gate monitoring and automobile traffic monitoring on remote driveways and roads. Installation is simply firmly mounting a mast into the ground, mounting the weatherproof enclosure to the mast, mounting the solar panel, and connecting your specific sensor. All in a matter of minutes.

"Listen" Before Transmit Transceivers

HST-1TR/PD One Zone Transceiver

HST-2TR/PD Two Zone Transceiver

HST-4TR/PD Four Zone Transceiver

HST-TR/PD long-range supervised-wireless transceivers provide a reliable and cost effective means of transmitting condition or event data to a remote site located miles away (up to 5 miles and more with accessories). These transceivers are employed in networks where communication with high reliability is required and which "listen" to make certain the frequency channel is clear before transmitting. Unlike conventional non-supervised systems, the HST-TR/PD series transceivers, along with their supervised receiver/control counterpart SR-768LRM, supervises the RF link and each transmitter power source to maintain a high degree of readiness and reliability. In addition, the real-time signaling ability of each transceiver allows for individual real-time sensor status display at the remote receiver location. The HST-TR/PD transceivers available as one zone, two zones, or four zones. All transceivers' transmitters are available in two or five watts of output power.

Mtr-1 Portable Pushbutton "Man-Down" Transmitter

The MTR-1 is a hand-held or belt-worn supervised-wireless portable radio transmitter with a push-button for convenient emergency or control signaling to a SALCO central receiver processor system, which can be located up to 2 miles away and more with accessories.

Use in Factories, Oil Fields, Prisons, Psychiatric Institutions, Government Facilities, Hospitals etc.

Emergency Signaling

Control Signaling

OTHER FEATURES:

- ***Optional built-in No-Motion detector (man-down) enables the system to communicate that "No Motion" has been detected within a programmable time interval.***
- ***Optional Built-in Physical Orientation "Angular" detection and signaling is also available.***
- ***An audible beacon sounder location aid for personnel who are unable to respond.***
- ***Low battery supervision with audible warning and indicator lamp, automatic test supervision polling signal every hour for system integrity testing.***
- ***High quality UHF (400MHz to 450 MHz) radio link for reliable operation and excellent radio signal***

MTR-1 PUSHBUTTON / TRANSMITTER HAND-HELD OR BELT-WORN

ACTIVATES MANUALLY ~ OR AUTOMATICALLY WITH IMPROPER ORIENTATION OR LACK OF MOTION

Manual Activation

Transmitter activates when a pushbutton is manually depressed.

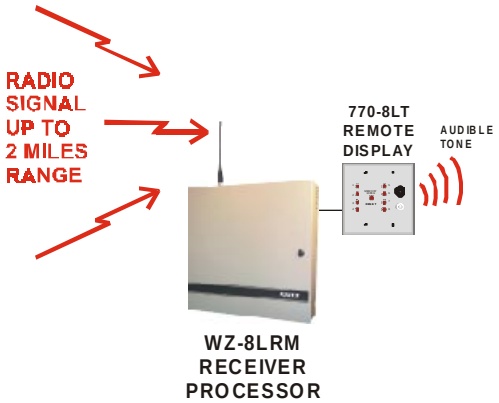
Automatic Angular Activation

Transmitter activates automatically when the transmitter is physically on an angle of 45 degrees, or more, in any direction from its vertical axis. Once activated, an intermittent audible tone is generated to help responding personnel in locating the transmitter.

Automatic No Motion Activation

Transmitter activates automatically when the transmitter senses No Motion for one minute. After the minute elapses a pulsating and accelerating pre-alert audible tone is generated to alert the wearer that the transmitter will send its emergency signal in 30 seconds.

SYSTEM IDENTIFIES UP TO 8 INDEPENDENT TRANSMITTERS



HST-1RP SENSOR TRANSMITTER RAPID DEPLOYMENT SECURITY SYSTEM

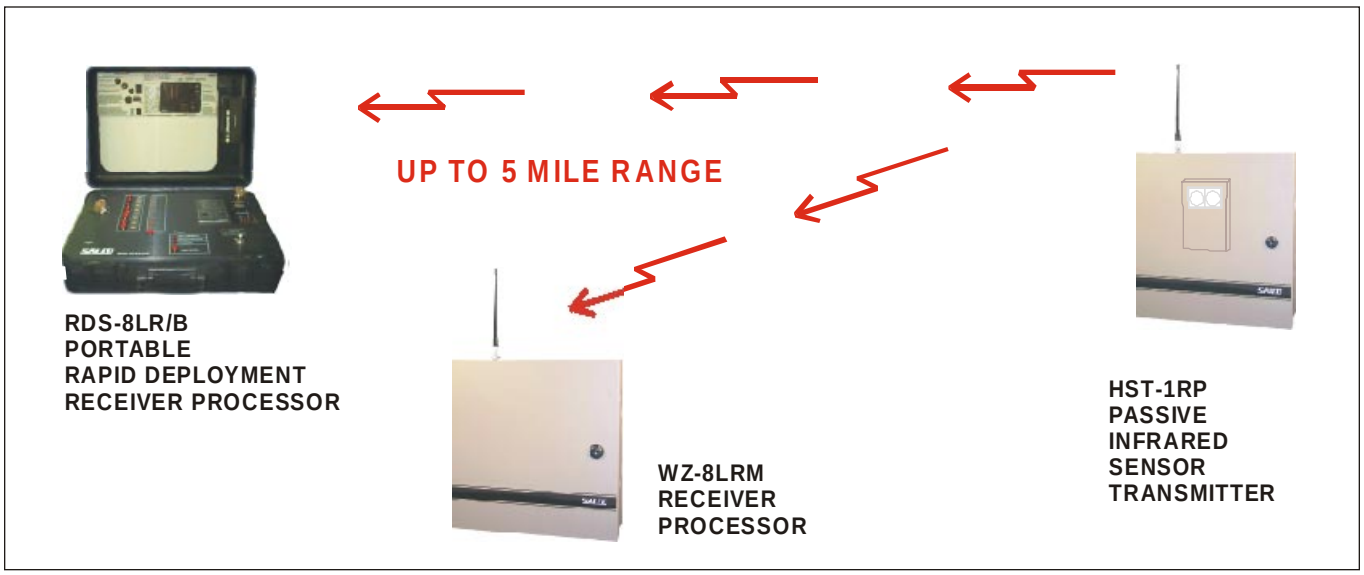
APPLICATIONS

- *Police and Corporate Stake-Outs*
- *Warehouses*
- *Electric Utilities Sub-Stations*
- *Restricted Areas*
- *Aircraft*
- *Rapid Deployment*
- *Remote Site Security*
- *Boat Security when Docked*
- *Shopping Malls*

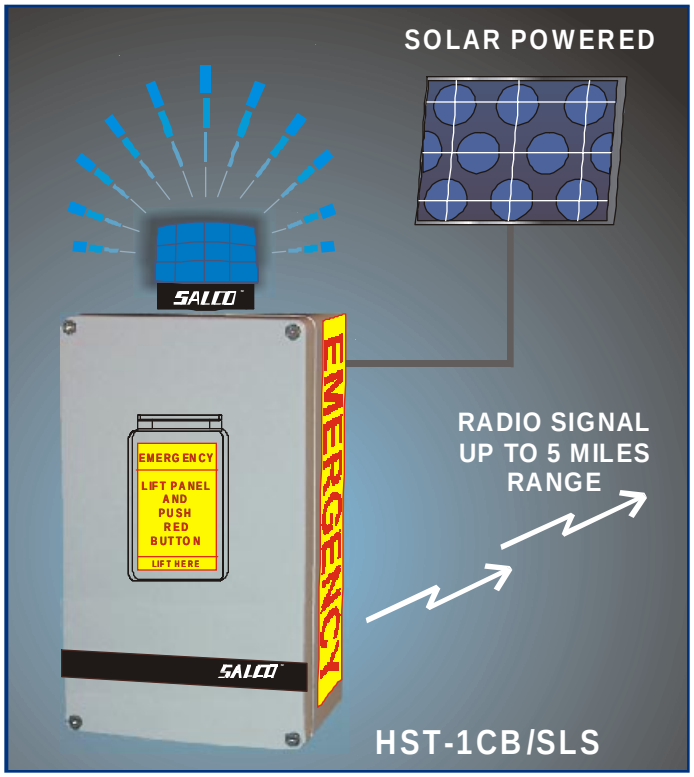
The HST-1RP Rapid Deployment System features an advanced dual passive infrared detector, coupled to an integrated HST-1 long-range transmitter, an uninterruptible power supply and backup battery. When the detector senses a person in its field of view a signal is sent to a SALCO receiver processor located up to five miles away, and more with accessories. The receiver illuminates a flashing LED lamp dedicated to that specific sensor and sounds an audible to alert monitoring personnel. The audible sound and the flashing LED lamp must be manually reset.

The HST-1RP has extremely low current operation and can operate for months on a single charge. Since the HST-1RP is a fully supervised system, advanced low battery warning is detected and displayed at the SALCO receiver processor employed. The system can be installed in several minutes and is especially well suited for applications where quick and reliable asset protection is required. Dimensions of the HST-1RP are 11.25" x 11.25" x 3.5" (28.58cm x 28.58cm x 8.89cm).

FCC license is required of the user for operation in the U.S.A.



HST-1CB/SLS Solar Powered Outdoor Wireless Emergency Station

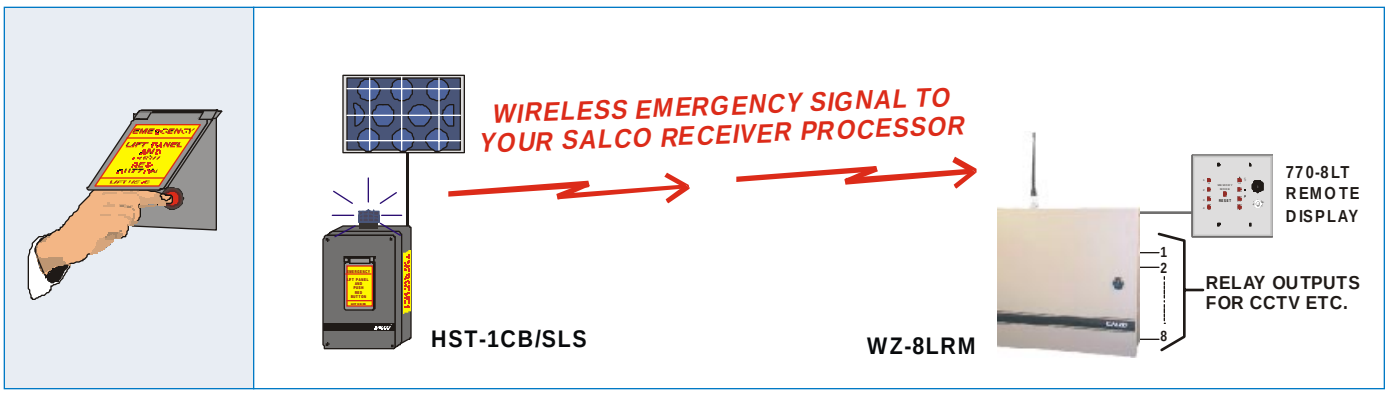


APPLICATIONS

- Parking Areas
- Garages
- Universities
- Airports
- Parks
- Camp Sites
- Golf Courses

A beacon lamp illuminates automatically during night time hours. When a station's red button is depressed a high intensity strobe light flashes for a field adjustable duration of up to 10 minutes and a radio signal is sent to a WZ-8LRM Receiver Processor which can be located up to five miles away! Upon receipt of a signal from an Emergency Station, the Receiver Processor's display panel emits an audible tone to alert attending personnel and an LED lamp is illuminated identifying the Emergency Station which had it's pushbutton depressed. The WZ-8LRM Receiver Processor has a dedicated output relay per station to activate your video cameras to zoom in on the activated Emergency Station.

Solar power is custom designed for your geographic location. System comes "turnkey" from the factory for installation in a matter of minutes with your local mounting hardware. Larger systems are available in multiples of eight stations.



WIRELESS RECEIVER INTERFACE / EXPANDER / ANNUNCIATOR

WZ-8LRM Wireless Interface System

APPLICATIONS:

Use as wireless expansion interface or a stand-alone.

Allows remote sensor points to be tied into existing hardwired security, access control, or energy management system.

Ideal for applications requiring a high quality, reliable supervised-wireless RF link.

Use as a stand-alone annunciator or interface to existing

The WZ-8LRM monitors the real time status of up to eight remote sensors and/or industrial control sensors located up to five miles away and more when using accessories. The status of sensors and transmitters is sent to the receiver processor via ultra high frequency radio signals. The functional components for reporting events from 8 long-range supervised-wireless sensor transmitters is illustrated in figure 1 on page 10. After an event has been detected, the information can be transmitted to a monitoring station by telephone and/or radio via the output relays.

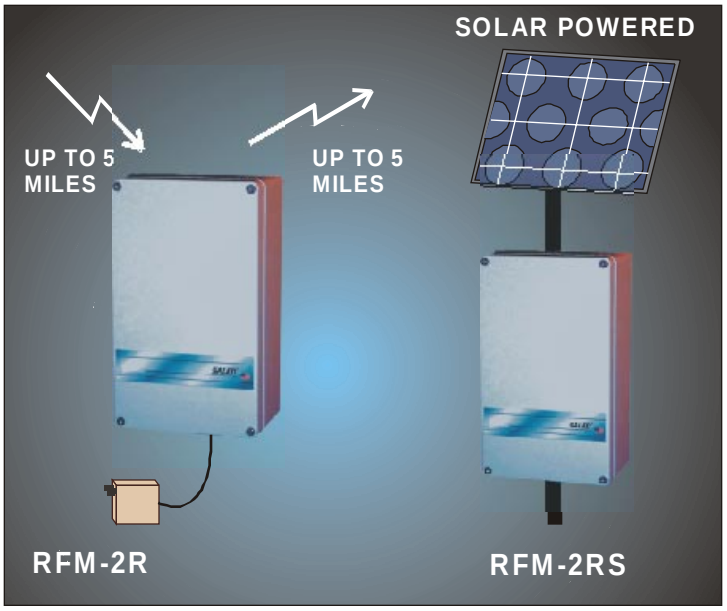
The WZ-8LRM is equally suited for stand-alone annunciation or interface to an existing system. The status of eight remote sensors is displayed with eight independent LED's on the processor board itself and on optional remote indicator panels. A built-in local or remote piezo provides an audible when sensor changes of state are detected. Eight individual relay outputs and a master relay output allow for convenient system interface to host proprietary systems.

An output relay for transmitter low battery conditions and an output relay for transmitter polling test failures are also provided. The system can pinpoint which of the eight transmitters has developed a low battery or has failed it's automatic test polling signal. The WZ-8LRM is also available in a NEMA weatherproof enclosure for outdoor applications. Physical dimensions of the WZ-8LRM are 11.25" x 11.25" x 3.5" (28.58cm x 28.58cm x 8.89cm). The systems WZ-16LRM, WZ-24LRM, and WZ-32LRM monitor 16, 24, and 32 sensors respectively.

WIRELESS GATE CONTROL APPLICATION

LONG-RANGE DIGITAL REPEATERS

RFM-2R and RFM-2RS Digital Repeaters



APPLICATIONS:

Corporate environments, marinas, construction sites, large residences and personnel protection using long-range transmitters to transmit emergency situations up to 15 miles away using antenna accessories.

Remote location security / control such as pipelines, pumping stations, parks, fences, emergency callboxes.

Protect and monitor equipment such as yachts, trucks, trains, airplanes, and heavy equipment.

Ideal for rapid deployment security such as construction sites, police stakeouts, museum art displays.

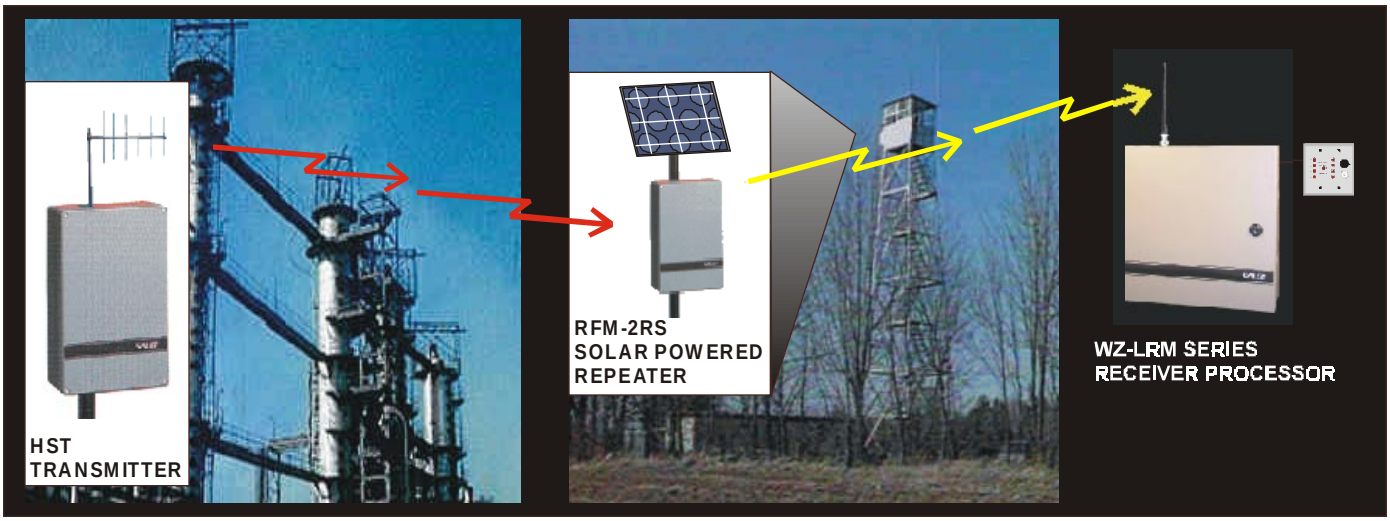
Data transmission such as liquid levels, temperatures, voltage, flow, and radiation levels.

Monitor and control energy management systems.

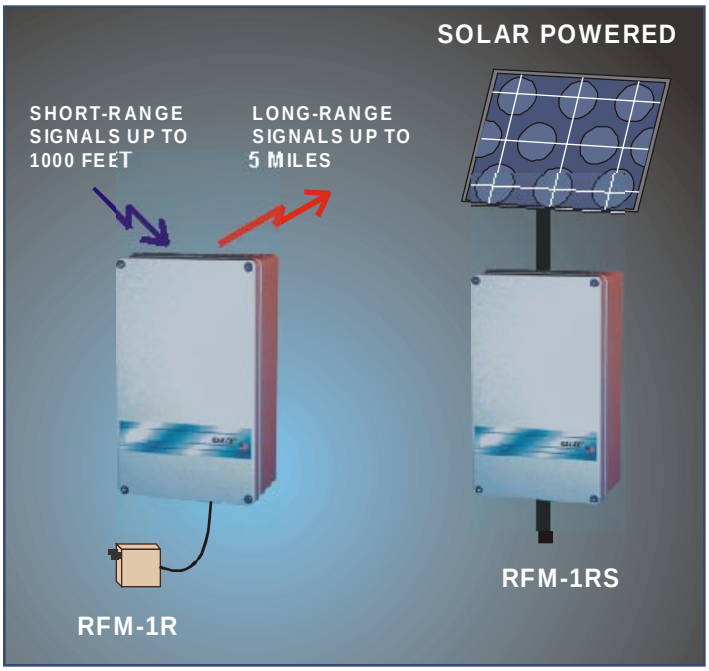
The RFM-2R and the Solar Powered RFM-2RS Digital Repeaters receive real time signals from any SALCO long-range transmitter, process and retransmit the information to a receiver processor miles away. The RFM-2R repeaters retransmit signals without degradation, consequently unlimited distances can be realized employing many repeaters in a system.

The supervised-wireless radio link provides high reliability with automatic monitoring and supports all sensor supervisory messages with on-board self-diagnostics to render 100% supervision of all RFM-2R or RFM-2RS repeater system components. Dual microcomputer design allows for simultaneous advanced digital signal processing of both incoming and outgoing system messages. On-board indicator LED's allow the user to view the status of incoming signals and identify the type of message currently being processed.

The digital repeater is enclosed in a weatherproof enclosure with dimensions of 15.74" x 9.84" x 4.72" (39.98cm x 25cm x 12cm). To install mount the unit on a wall and insert the transformer into a 120 volt 60 Hz power receptacle.



RFM-1R and Solar Powered RFM-1RS Short to Long Range Digital Repeater



APPLICATIONS:

Corporate environments, marinas, construction sites, large residences and personnel protection using short-range transmitters to transmit emergency situations up to 5 miles and more with accessories.

Remote location security / control such as pipelines, pumping stations, parks, fences, emergency callboxes.

Protect and monitor equipment such as yachts, trucks, trains, airplanes, and heavy equipment.

Ideal for rapid deployment security such as construction sites, police stakeouts, museum art displays.

Data transmission such as liquid levels, temperatures, voltage, flow , and radiation levels.

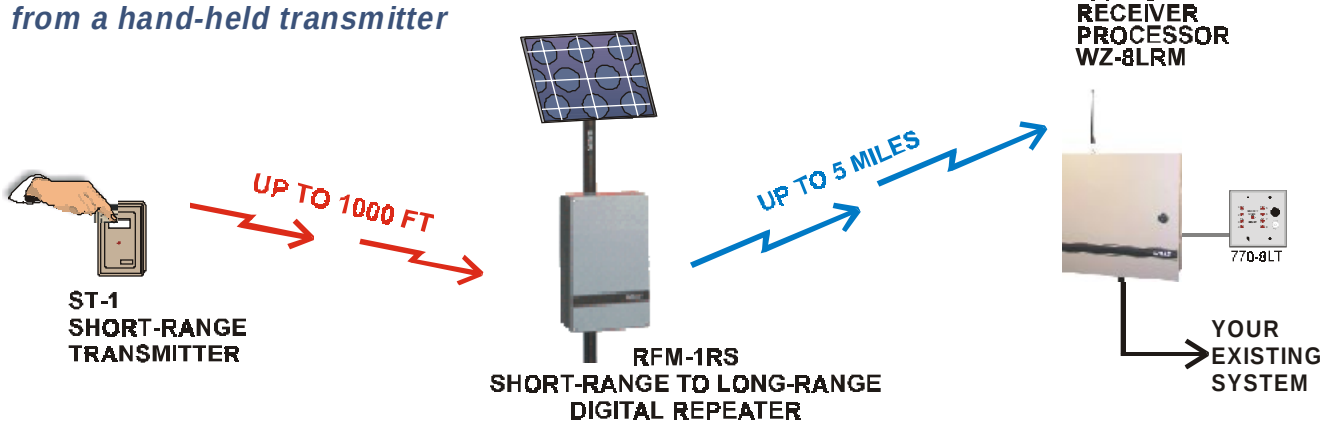
Monitor and control energy management systems.

The RFM-1R and the solar powered RFM-1RS are outdoor RF signal repeater systems which receive short range wireless signals and convert them to long range signals for retransmission with zero signal degradation and with a range of five miles. They can be used with multiple remote receivers (SALCO Model RDU-1) for short-range wireless cellular reception of distributed sensor transmitters.

The supervised-wireless radio link provides high reliability with automatic monitoring and supports all sensor supervisory messages with on-board self-diagnostics to render 100% supervision of all digital repeater system components. Dual microcomputer design allows for simultaneous advanced digital signal processing of both incoming and outgoing system messages. On-board indicator LED's allow the user to view the status of incoming signals and identify the type of message currently being processed.

The digital repeaters are mounted in a weatherproof enclosure with dimensions 15.74" x 9.84" x 4.72".

Example: Initiate an emergency signal from a hand-held transmitter

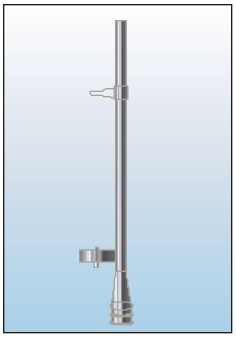


LONG-RANGE ANTENNAS

SALCO long-range antennas are employed in some applications to increase the functional range of transmitters, receivers, and digital repeaters. The antennas come in two physical configurations, vertical whip type and a multi-element array. The vertical whip antennas are usually mounted directly on the transmitters and receivers. However, they can easily be placed at remote locations via standard coaxial cable. The multi-element arrays are mounted at a location remote from the transmitter or receiver via standard coaxial cable and they increase the functional range much more than the vertical whip antenna.

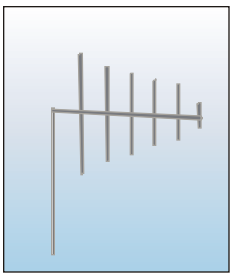
102 Whip Antenna

The model 102 is a high performance omni-directional whip antenna which mounts directly on transmitters and receivers via a 50 ohm BNC type connector. Placement of the antenna at a remote location from the transmitter or receiver is possible via 50 ohm coaxial cable. Physical length of the antenna is approximately 5.25" (13.34cm). Physical length of the antenna varies with the specific frequency of operation.



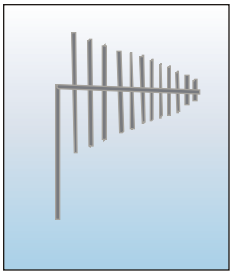
OA-3/450 High-Gain Omni-Directional Antenna

Model OA-3/450 is an omni-directional whip antenna with 4.6 DB of gain for increasing functional range. The antenna is made with aluminum tubing and stainless steel hardware which provides years of trouble free service. Length is approximately 36" (91.44cm). Physical length of the the antenna varies with the specific frequency of operation.



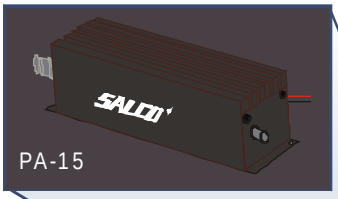
YAGI-6 Directional Antenna

YAGI-6 Directional Antenna has a gain of 10.2 DB to increase the functional range in more demanding applications. The elements are made of solid aluminum rods with stainless steel hardware for years of trouble free service. The boom is heavy-wall and seamless aluminum tubing. The boom length is 41.5" (105.41cm) and the broadest element is approximately 13.5" (34.29cm). Physical length of the broadest element varies with the specific frequency of operation.



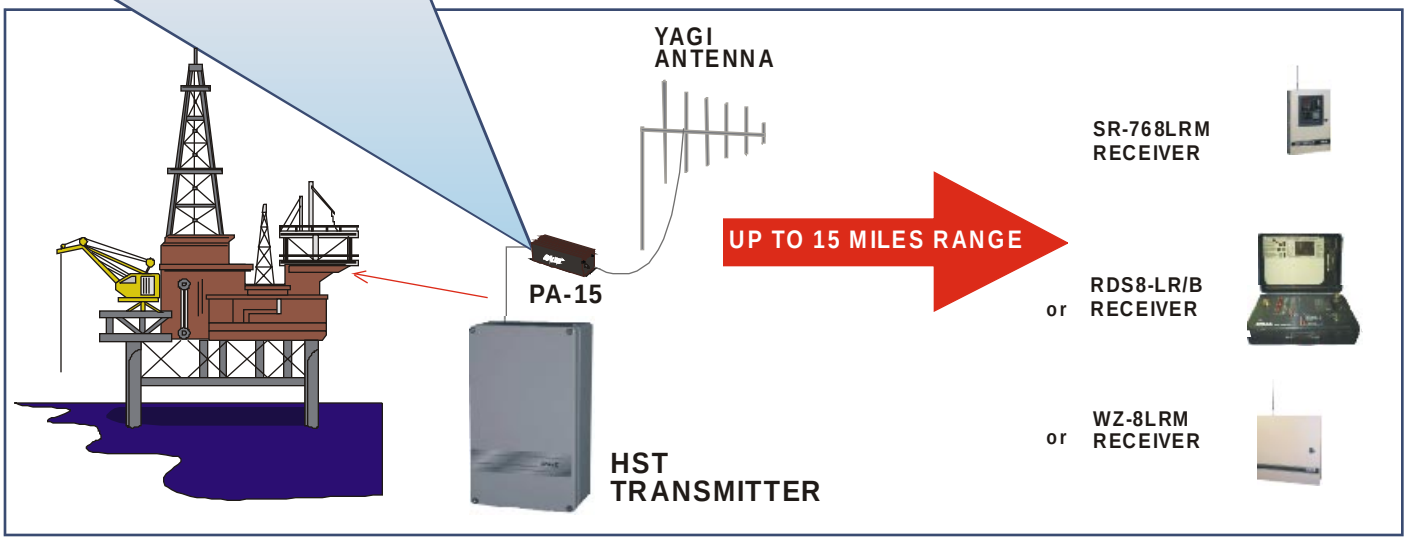
YAGI-12 Directional Antenna

The YAGI-12 Directional Antenna has a gain of 12.25 DB to increase the functional range more than the YAGI-6. It has the same physical construction as the YAGI-6 but has a boom length of 72" (182.9cm) and the broadest element is approximately 13.5" (34.29cm).



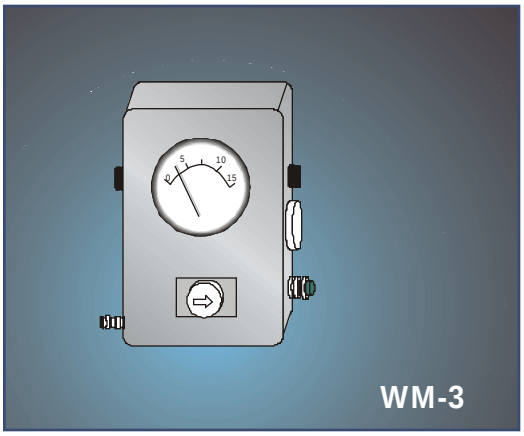
PA-15 RF Power Amplifier

The PA-15 is a fifteen watt UHF power amplifier installed in series with the antenna feed line which increases the functional range of the system up to approximately ten to fifteen miles. Physical dimensions are 5.5” x 1.5” x 1.5” (13.97cm x 3.81cm x 3.81cm).



FM-1 Frequency Meter

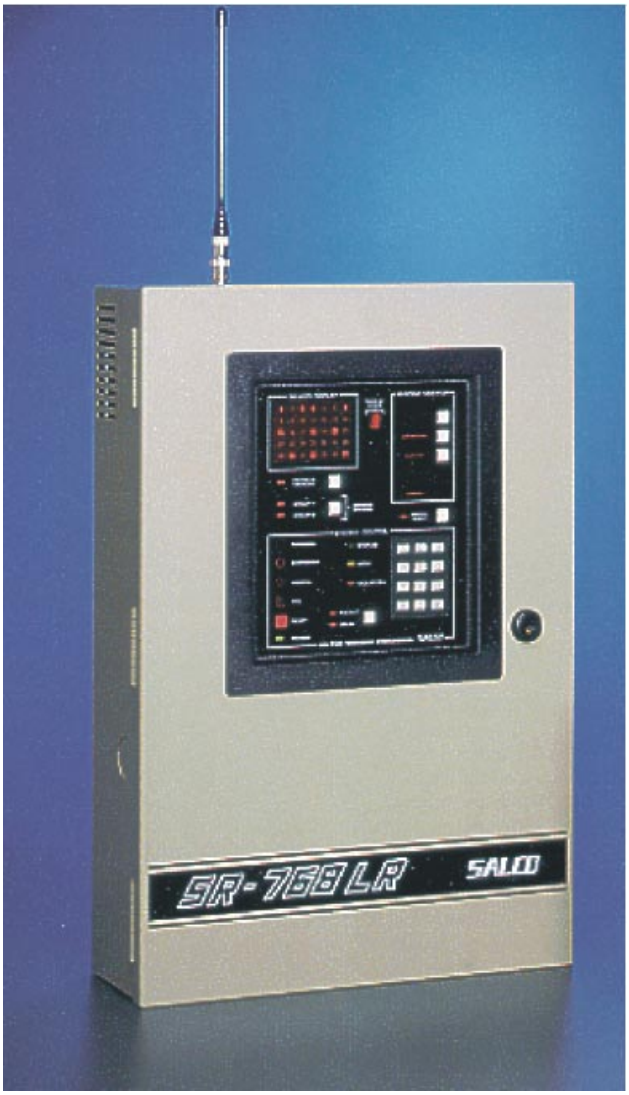
FM-1 frequency meter is used for verifying that transmitters are on the correct assigned frequency and have not drifted. Dimensions are 4" x5" x1.25” (10.1cm x 12.7cm x 3.18cm).



WM-3 Wattmeter

WM-3 Wattmeter is used for checking the RF power output of transmitters. Physical dimensions of the wattmeter are 7" x 3" x 4" (17.8cm x 7.62cm x 10.1cm).

RECEIVER / PROCESSORS



SR-768LRM RECEIVER PROCESSOR

The SR-768LRM Receiver Processor is capable of remotely monitoring up to thirty-five supervised-wireless sensors which interface with SALCO long-range supervised-wireless transmitters. At the SR-768LRM the zones for these sensors can be user configured for industrial control applications as well as to any combination of Intrusion, Fire, Audible or Silent Emergency, Medical Sensors or Auxiliary types. To provide a friendly interface to the user the true status of all the remote sensors is presented to an LED matrix display wherein the entire system's sensor operational status can be determined at a glance, simultaneously and in real time. The SR-768LRM also incorporates a user keypad which is used for system arming and disarming and individual sensor bypassing operations.

Among the latest and most important features of the SR-768LR are it's vast repertoire of supervisory capabilities, it can continuously monitor each wireless sensor's transmitter for operational capability through it's unique built-in automatic test feature. This feature allows the user to place the SR-768LR into a state in which it will recognize hourly "Test" transmissions from any of the remote transmitters.

Not to be overlooked are the SR-768LRM's outstanding trouble diagnostic features. Among these are unique "Track and Trace" alarm memory features which enables the user to view stored memory information in the exact sequence in which sensor violations occured. As a result of these enhanced operational features the SR-768LRM represents a new threshold in capability, utility, and overall system performance available today. Some applications where the SR-768LRM is being used in the field include large railroad yards, pipelines, libraries, outdoor campsites, storage facilities, and government buildings. Physical dimensions of the SR-768LRM are 18.25" x 12.25" x 4.37" (46.36cm x 31.3cm x 11.1cm).

SR-768LRM APPLICATIONS:

Use as a wireless security control panel and a stand-alone annunciator in commercial, industrial, and large residential applications.

Monitor and control industrial processes such as liquid levels, temperatures, process limits, etc.

Interface to your existing security system, pumps, machinery, water, etc.

Monitor all doors in your facility.

Emergency signaling using long-range hand-held transmitters such as the Salco MTR-1.

Ideal for a host of applications requiring a high quality, reliable, and supervised-wireless RF link.

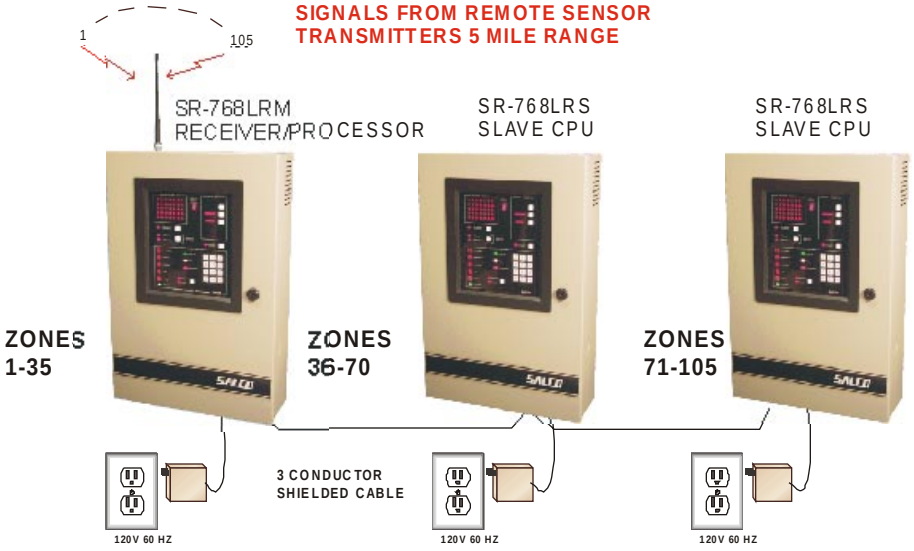
Employ a hard-wired sensor on position 35.

SR-768LRMS Slave CPU Receiver Processor

The model SR-768LRS CPU is a slave receiver processor employed when more than thirty-five remote sensor transmitters are being monitored. An additional thirty-five sensor transmitters can be monitored with each slave unit without the need for another radio receiver and antenna. One radio receiver and antenna will accommodate up to two hundred fifty six long-range signals. A three conductor shielded cable connects all CPU units together to the SR-768LRM. Each SR-768LRS has its own matrix LED's which identify thirty-five sensors.

APPLICATION: SYSTEM MONITORING 105 SENSOR POINTS

A system employing one SR-768LRM and two SR-768LRS to monitor 105 remote sensors. Each sensor LED displays it's real time status. Diagnostic signals identify each transmitter for low battery and polling failure faults.

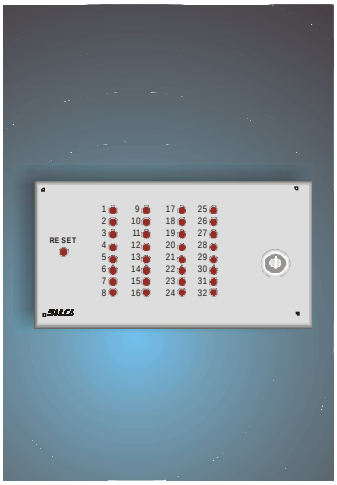


RECEIVER PROCESSOR OPTION MODULES

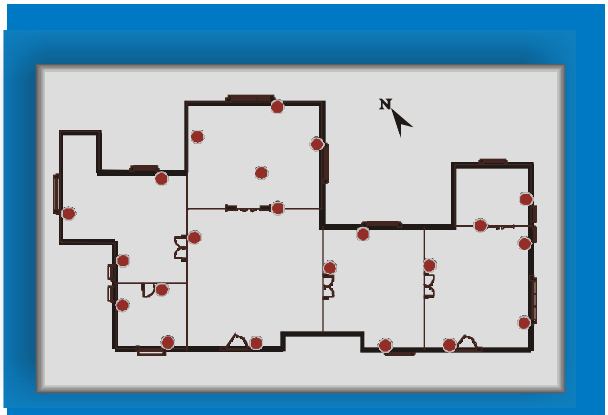
RT-100 Remote Terminal

The RT-100 is a remote terminal for the SR-768LRM Receiver Processor which provides a convenient display and control from multiple remote locations. The terminal features a full-size tactile feedback as well as a sensor display which enables the user to determine precisely the status of all sensor SIMULTANEOUSLY at a glance. For example, if the terminal is used to monitor thirty-five doors, and ten of those doors are ajar, the LED matrix display will illuminate the LED's for those doors indicating to the user that ten doors are not closed. The RT-100 is ideal for large facilities Dimensions are 8.2" x 5" x 2" (20.83cm x 12.7cm x 5.08cm).

LT-1000 Remote Annunciator / BypassTerminal



The LT-1000 is a remote annunciator / bypass terminal which provides convenient display and control from multiple locations, and can interface with the SR-768LR Receiver Processor. The panel is extremely simple to operate. Each LED functions also as a pushbutton switch. The user depresses the LED momentarily to bypass a specific zone in the system and that LED flashes constantly indicating that zone is out of service. Real time sensor activity is displayed. For example, if a door is monitored on zone 2, when the door is open zone 2 LED will be illuminated. When the door closed the LED will extinguish. Whenever there is a change of state detected from one of the sensors a soft audible will sound for several seconds. The keyswitch is to prevent unauthorized personnel to bypass zones in the system. LT type panels with custom wording are available. Consult our custom department as to your requirements.



GD-1000 CUSTOM GRAPHIC DISPLAY

CUSTOM LABELING

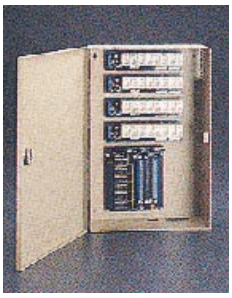
Custom Graphic Displays

See your facility's total sensor status at a glance with our LT type custom label displays. Bypass a zone merely by touching the LED lamp for that zone.

The GD Series is a custom graphic display / bypass annunciator panel which indicates the status of zones or sensor points. Each LED lamp represents one zone or sensor point, and can comprise a pushbutton switch used to bypass zones or sensors.

Submit an exact camera ready print of your facility layout and our custom department will fabricate an exact copy of the print submitted onto a brushed aluminum annunciator panel. Custom labeling is also available. Dimensions can be as large as nine square feet. Consult the factory for larger panels.

RM-40/RB-8C Output Relays



The RM-40 provides forty programmable outputs which can interface with five banks of eight relays Model RB-8C. This provides the means to interface with existing systems with a Form C output relay contact per remote sensor. The output relays can be programmed in one of three output modes: follow sensor event, latching, or momentary. When operating in the momentary mode, the output relays activate for ten seconds on any of the activation events. The output relays can be programmed to activate on one of three events, namely, on sensor violation, on sensor bypass, and on keyboard activation commands. All on a one to one correspondence basis. Both the RM-40 and the five banks of RB-8C output relays can be mounted in the SALCO 719 cabinet whose dimensions are 18.25" x 12.25" x 4.37" (46.3cm x 31.12cm x 11.11cm).

PGC-8M Digital Communicator

The digital communicator model PGC-8M is a plug-in module for the SR-768LR Receiver Processor. A cable from the digital communicator is inserted into an RJ-31X telephone company jack. Any number of remote sensors can be programmed and mapped onto any of the eight channels to report sensor events. When triggered by a sensor violation, the communicator seizes the telephone line and automatically dials the remote fixed central station to report it's sensor violation information to a digital receiver. Personnel at the fixed central station alert the responsible agencies by telephone for a response to the site which reported a violation.

SL-1 Remote Status Module

The SL-1 Remote Status Module in conjunction with either the remote keypad or the RDS-1 remote control plate, enables the user to arm and disarm the SR-768LR Receiver Processor with a keypad or keyswitch as well as to display three status LED's, and sound a remote piezo audible. Six conductors are required for all functions. The module is inserted in any one of two ports in the SR-768LR Receiver Processor. Physical dimensions are 4.2" x 2" x 0.6" (10.67cm x 5.08cm x 1.52cm).

MZ-8 Hardwired Zone Converter	Eight wireless sensor points on the SR-768LR Receiver are converted to hardwired sensor points with the MZ-8 and MZ-8M plug-in module, which is ideally suited for installations with hardwired and wireless sensors.
RM-8 Output Relay Module	An eight channel output relay expander module which provides normally open relay contacts for triggering external systems such as existing security systems, video cameras, recorders, etc.
RDS-1 Remote Control Plate	A stainless steel single gang plate with a keyswitch for the user to arm and disarm the SR-768LRM, displays arm/disarm, sensor, and violation status of the SR-768LRM Receiver.
RTC-1 Remote Terminal Controller	The RTC-1 enables the SR-768LR to be hardwired to one or more RT-100 or LT-1000 remote terminal.
RM-1 Relay Module	A single zone relay module activated by a normally closed contact or by a positive voltage. The relay is disabled at zero volts and will activate with a positive voltage between 3.5 volts and 12 volts DC.
RM-1B Relay Module	A relay module activated by a normally closed dry contact or by a positive voltage. The output relay activation time may be adjusted up to 90 seconds by an on-board potentiometer. The relay is disabled at zero volts and will activate with a positive voltage between 3.5 volts and 12 volts DC.
JU-7 Wiring Junction	The JU-7 Wiring Junction connects up to six RDU-1 Remote Data Units.

WIRELESS RAPID DEPLOYMENT SYSTEMS

RDS-8LR/B Receiver Processor Annunciator

APPLICATIONS

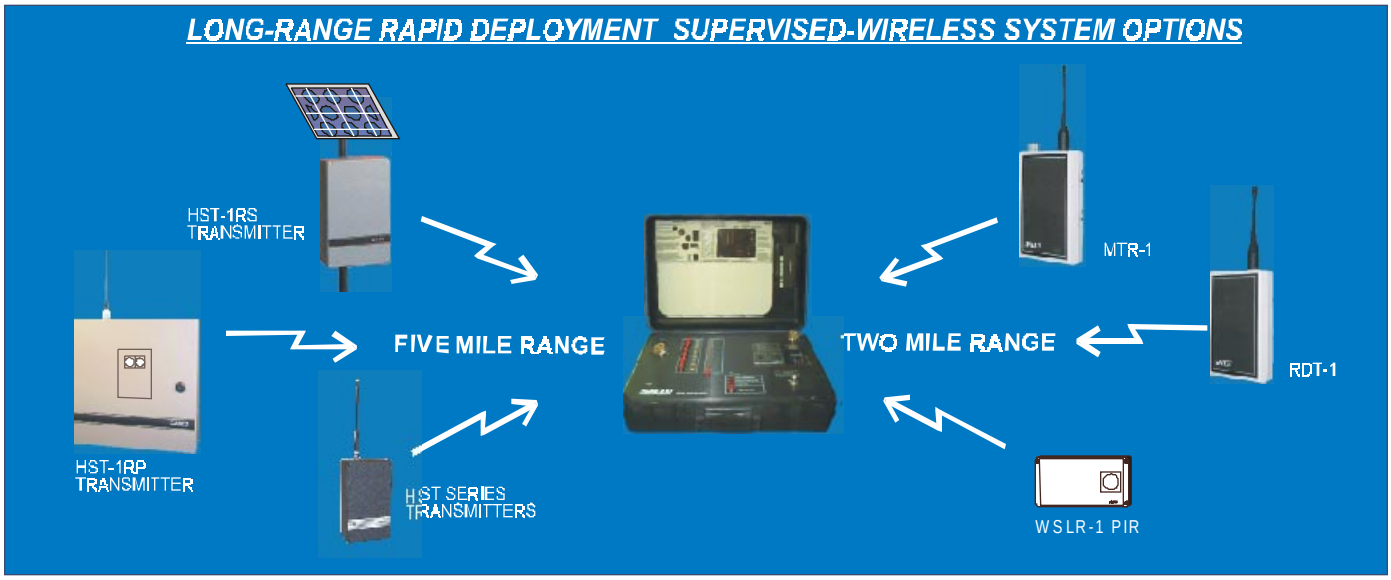
Ideal for security and surveillance operations where portability and rapid deployment are required.

- *Executive security.*
- *Hospitals.*
- *Police and corporate stakeouts.*
- *Colleges.*
- *Construction Sites.*
- *Military Camp Sites.*
- *Shopping Malls.*
- *Large Boats.*

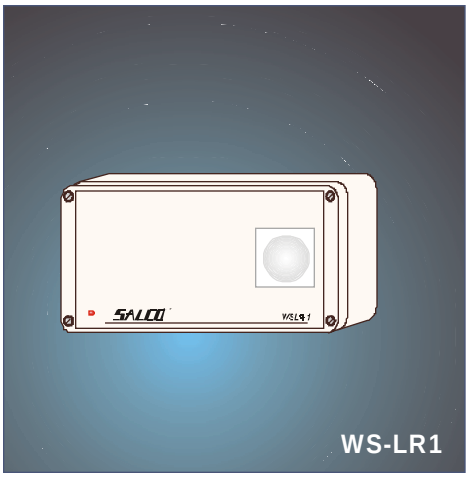
The RDS-8LR/B is a portable long-range wireless rapid deployment system, with advanced low battery warning and automatic polling test of each remote transmitter in the system. The real time status of each remote sensor is monitored and displayed on LED lamps, and the received signal strength measured with a built-in analyzer. When a sensor is violated, a soft audible sounds and the LED for that sensor flashes. The sound and the flashing LED's must be manually reset to help ensure attention is given to sensor violations.

The RDS-8LR/B can be used in stand-alone applications and interfaced to existing control equipment in expander / annunciator applications. Remote Data Unit Model RDU-1 can be added to receive short-range signals from SALCO short-range transmitters located up to 3000 feet away.

Powered by 120 Volts 60 Hz via a low voltage Class II power transformer the system also has backup battery power, which can be used for up to 12 hours when AC power is not available. Dimensions of the ABS Plastic carrying case are 13" x 18" x 6" (33cm x 45.7cm x 15.2cm) and the system weighs 14lbs.



FOR RAPID DEPLOYMENT APPLICATIONS



WS-LR1 Sensor Transmitter

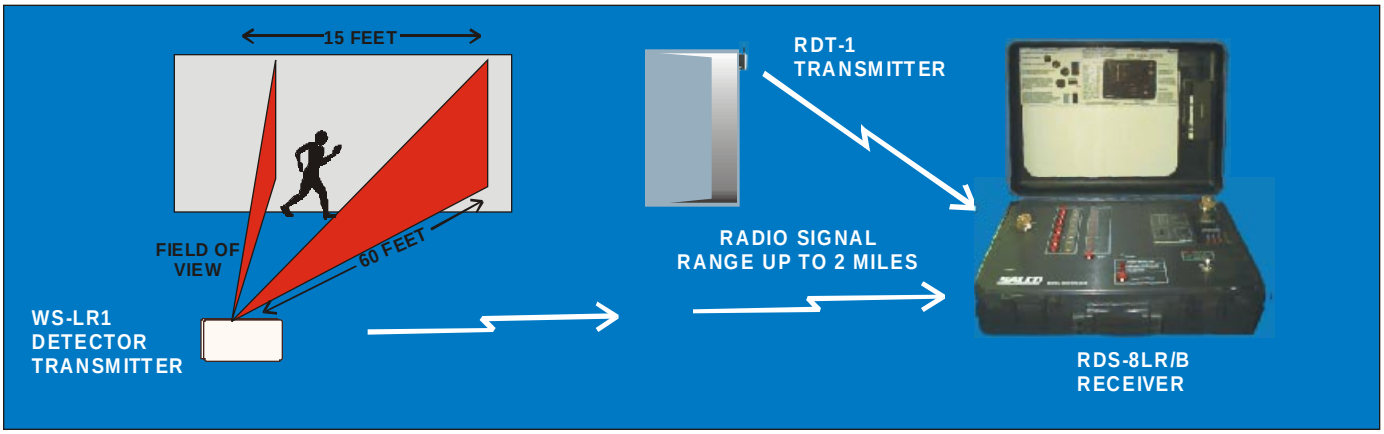
The WS-LR1 miniature long-range wireless PIR sensor transmitter represents a breakthrough in detection and wireless signaling design. The WS-LR-1 is an integrated wireless sensor featuring an advanced passive infrared detector coupled with a high powered self-contained digital supervised-wireless transmitter. Advanced circuit power engineering allows for single battery operation with micropower consumption during quiescent periods and yet can deliver Watts of wireless signaling power upon detection. As a result, the WS-LR1 represents the smallest supervised wireless detection system with a communication signaling range exceeding one mile. Physical dimensions are 3.14" x 6.29" x 2.16" (7.98cm x 15.98cm x 5.49cm).

RDT-1 Transmitter for Rapid Deployment Application

The RDT-1 is a long-range supervised-wireless transmitter providing a reliable and cost-effective means of transmitting conditions or event data from sensors with dry contacts to a remote site located up to two miles away. The RDT-1 along with it's receiver/control counterpart RDS-8LR is a rapid deployment system with real time signaling ability which allows for individual sensor status display.

Installation of each transmitter is a matter of seconds employing double-sided adhesive tape. Popular applications include rapid deployment for executive security, monitoring doors and windows, police surveillance and employee theft. The RDT-1 is powered by a standard nine-volt alkaline battery which can be changed in seconds. Physical dimensions are 3.6" x 5.75" x 1.3" (9.14cm x 14.6cm x 3.30cm). The antenna length is 4.75" (12.06cm).

IDEAL FOR EXECUTIVE SECURITY, STAKE-OUTS, AND SURVEILLANCE OPERATIONS WHERE PORTABILITY AND RAPID DEPLOYMENT ARE REQUIRED.



Applications:

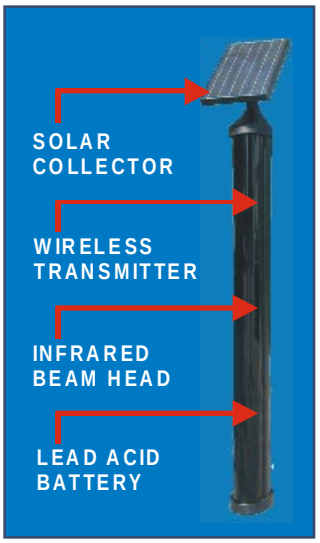
Outdoor Perimeter Security such as:

- Electric Sub-Stations
- Pipelines
- Pumping Stations
- Multiple Remote Buildings
- Motor Pools
- Large Facilities

Rapid Deployment Security

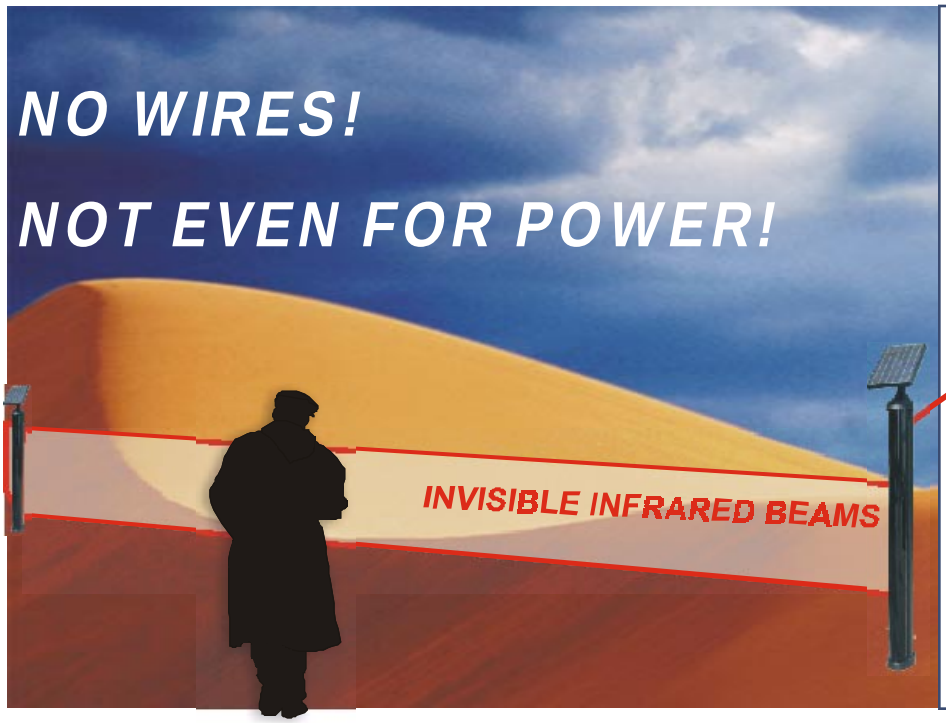
OS-600WLR

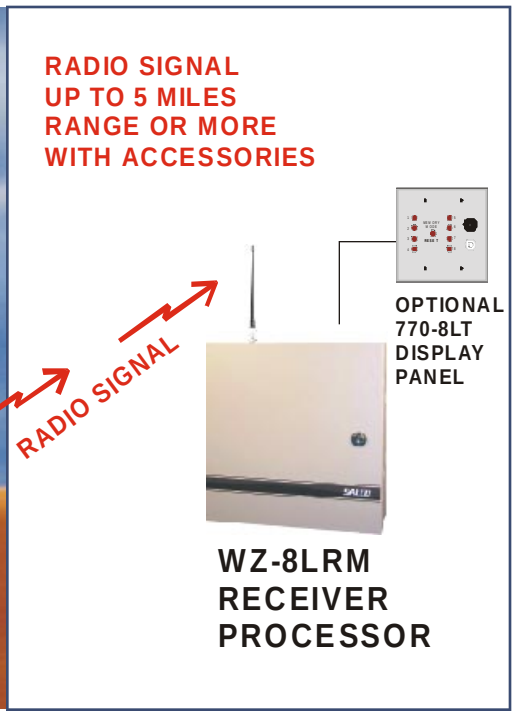
The SALCO outdoor beam system requires NO WIRES, even for power!



The system is a solar powered system designed to provide perimeter protection where power and wiring are difficult or virtually impossible to obtain. The OS-600WLR has a maximum detection distance of 600 feet, and upon a system violation radio telemetry transmitters send signals to a SALCO WZ-8LRM receiver processor, which can be located up to five miles away and more with accessories. Solar collectors provide the power to the photoelectric transmitter and receivers as well as the telemetry radio transmitter. The SALCO receiver processor pinpoints exactly which beam was violated among a multiplicity of photoelectric beam systems situated miles apart from each other. The radio transmitter and receiver processor also alert the user if a photoelectric beam has a low battery, polling test failure, or system tamper condition.

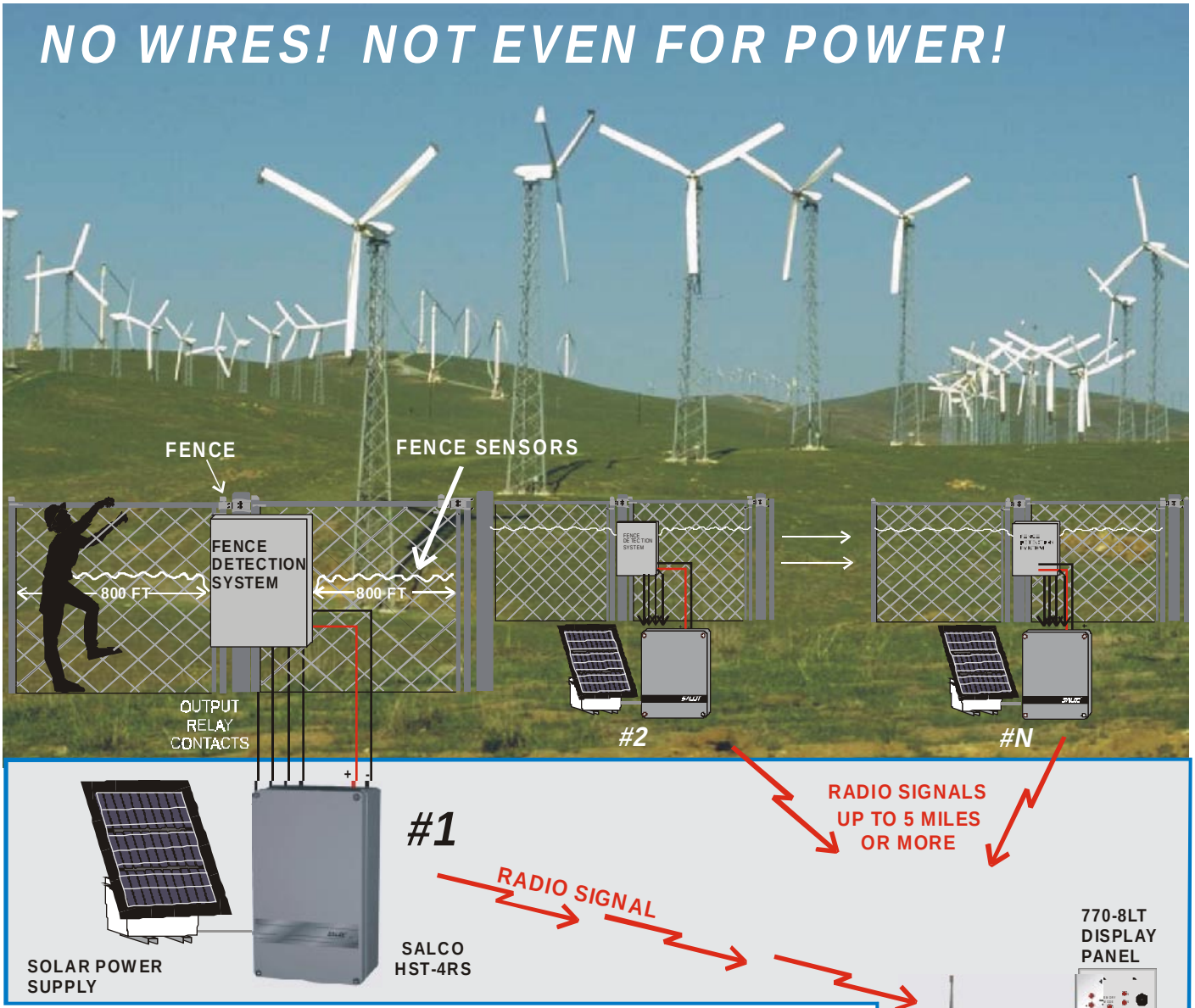
The system is "turnkey" and can be installed in several hours.





Solar Powered Supervised-Wireless Outdoor Perimeter Fence Detection System

NO WIRES! NOT EVEN FOR POWER!



The wireless solar-powered outdoor perimeter fence system transmits a radio signal to the WZ-8LRM receiver processor located up to five miles away, or more with accessories. Each fence system comprises a solar power supply, fence detection processor, and radio telemetry transmitter and can accommodate a linear fence length of 800 to 1000 feet.

An alarm condition is caused by someone attempting to climb over the fence, cut through the fence, or lift the fence fabric. Separate sensor identification is provided at the processor to pinpoint which sensor was violated along the fence perimeter. Also provided is a supervision alarm if the fence sensor cable is cut or shorted.

Call the factory to discuss your requirements.

SENSORS AND TRANSMITTERS

SQUARES INDICATE PAGE NUMBERS

4

HST-1PDM
Single Zone Transmitter

HST-2PDM
Dual Zone Transmitter

HST-4PDM
Four Zone Transmitter

5

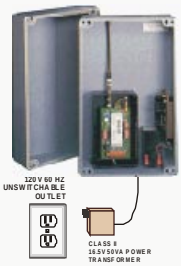
SOLAR POWERED

HST-1RS
Single Zone Solar-Powered Transmitter

20

RDT-1
9V Alkaline Battery Powered Transmitter

5



5 MILES

HST-1R/HD
Single Zone Transmitter in NEMA Enclosure for Rugged Environments

HST-1R/HD
Dual Zone Transmitter in NEMA Enclosure for Rugged Environments

HST-4R/HD
Four Zone Transmitter in NEMA Enclosure for Rugged Environments

5

5 MILES

HST-1RM
Single Zone Transmitter in NEMA Enclosure

HST-2RM
Dual Zone Transmitter in NEMA Enclosure

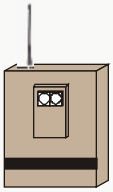
HST-4RM
Four Zone Transmitter in NEMA Enclosure

SENSOR / TRANSMITTERS

6

MTR-1B
Pushbutton / Transmitter Hand-Held or Belt-Worn for General Signaling

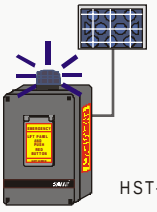
7



HST-1RP
Sensor Transmitter Rapid Deployment Security System

SOLAR POWERED

8

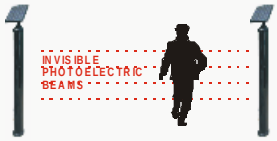


HST-1CB/SLS

Outdoor Photoelectric Beam System
OS-600WLR

1-20

SOLAR POWERED



5 MILES

MTR-1
Transmitter for Level and Motion Sensing, and Manual Pushbutton

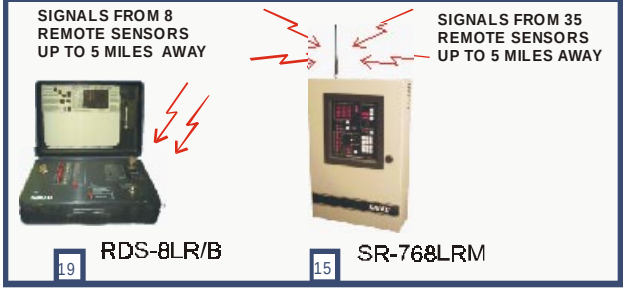
2 MILES

6

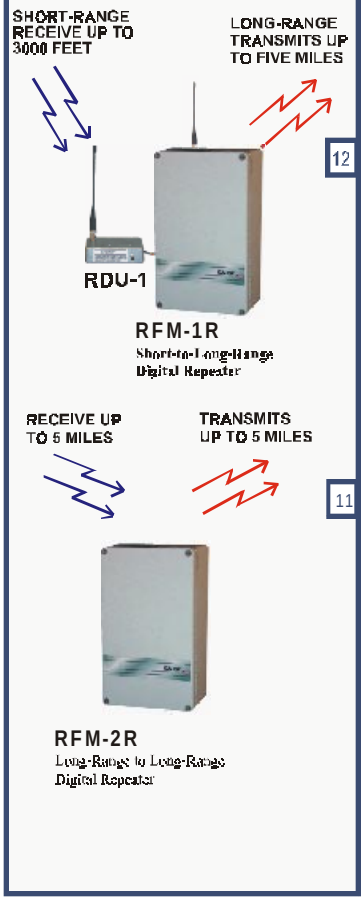
20

RADIO SIGNAL UP TO 2 MILES

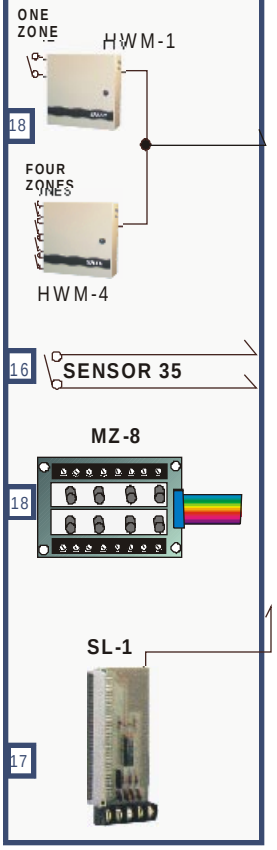
WS-LR1
Detector Transmitter powered with a 9-volt alkaline battery.



DIGITAL REPEATERS



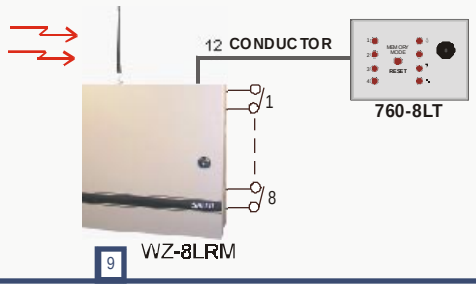
HARDWIRED SENSOR INPUTS



RF ACCESSORIES

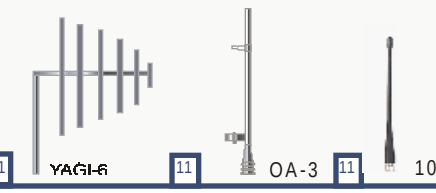
SQUARES INDICATE PAGE NUMBERS

RECEIVER PROCESSORS



7-4

ANTENNAS



11 11 11

OPTION MODULES

8 CONDUCTOR SHIELDED CABLE (UP TO 1000 FEET)

MZ-8M PLUG-IN

PLUG-IN

PLUG-IN

RTC-1

PLUG-IN RM40

RB-8C RELAY MODULE

1 32 1 32

2 CONDUCTOR # 18 AWG 250 FEET

HS-11P SPEAKER

PLUG-IN

RM-8

OR

PLUG-IN

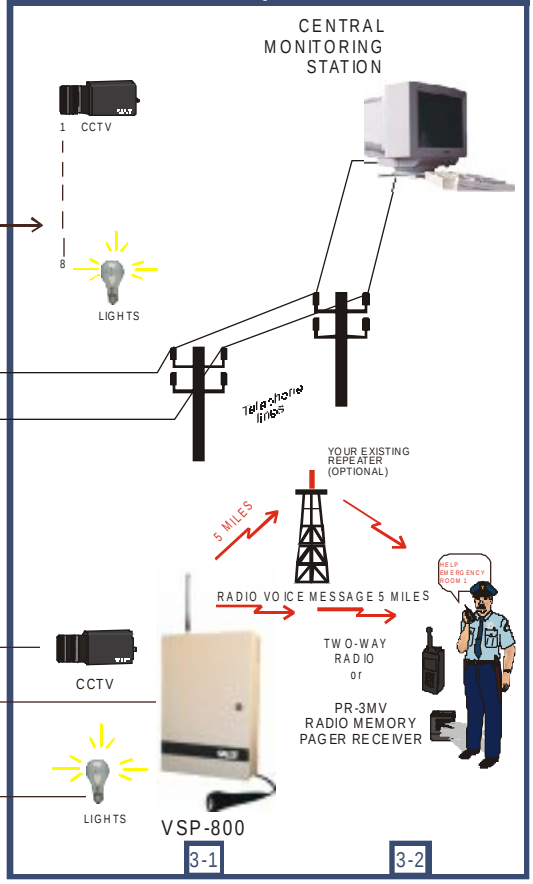
PGC-8M

8 RELAY OUTPUTS

TELEPHONE LINES T R

17 18 18 18 17

EXTERNAL EQUIPMENT

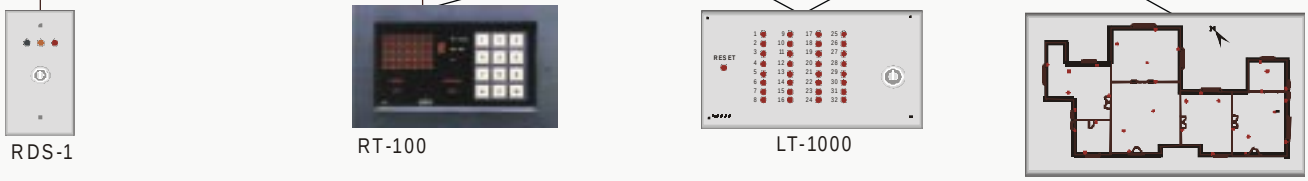


3-1 3-2

5 CONDUCTOR SHIELDED CABLE

10 CONDUCTOR SHIELDED CABLE

SR768 RECEIVER PROCESSOR DISPLAYS AND CONTROLS



17 17 17 17

CALL FOR HELP IMMEDIATELY!

APPLICATIONS:

Roving Guard Response at Large Facilities:

- Shopping Malls
- Hospitals
- Pumping Stations
- Boiler Rooms
- Greenhouses
- Correctional Institutions
- Universities, Schools and Colleges
- Computer Rooms
- Construction Sites
- Automatic Processing Centers

VSP-800

The VSP-800 Voice Reporter monitors hardwired sensors which activate a radio voice message upon a detected event, and notify your security personnel. Your pre-recorded message is transmitted to radios or pagers up to five miles away, more with accessories, even further with your own repeater. You can program and change your voice message in seconds by speaking into the microphone in any language.

Security and industrial control events can be monitored and voice annunciated with systems available in multiples of eight sensors from eight to sixty-four sensors. System model numbers are VSP-800/8, VSP-800/16, VSP-800/24, VSP/800/32, VSP-800/40, VSP-800/48, VSP-800/56 and VSP-800/64 for 8, 16, 24, 32, 40, 48, 56 and 64 sensors respectively. Any sensor with an output relay contact, or equivalent, can be employed as an input to the system to activate voice messages. Physical dimensions are 18.25" x 12.25" x 4.38" (46.36cm x 31.1cm x 11.13cm). Installation is extremely simple. Mount the cabinet on a wall, connect your hardwired sensors, insert the power transformer into 120V 60Hz receptacle and you're done! Program your own voice recorded messages or have the factory program them for you.

PR-3MV Radio Voice Memory Pager Receiver

The PR-3MV voice memory pager receives voice messages from the VSP-800 Voice Reporter System up to 5 miles distant. The memory pager has a built-in vibrator which notifies you of an incoming message. This ensures completely silent reception providing privacy as it receives and remembers messages. You can replay your messages as often as you like at a more convenient or private time. Dimensions are 2" x 2.75" x 1.0". (5.08cm x 6.99cm x 2.54cm) and weighs 2.5 ounces (71 grams).

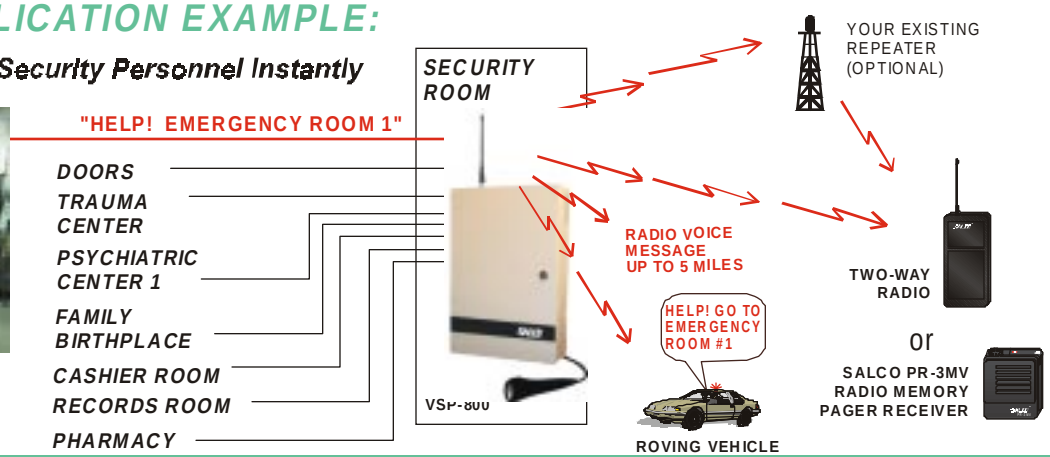
VSP-CT1 Used in coded tone squelch radio systems for private conversations.

VSP-DTS Dual tone sequential code option enables signaling the Salco PR-3MV portable pager.

VSP-DTL Used in Digital Private Line squelch radio systems for private communication.

HOSPITAL APPLICATION EXAMPLE:

Summon Your Roving Security Personnel Instantly



ORDER PLACEMENT

Product orders can be placed by calling the Order Desk at 941-377-7717 or by fax at 941- 379-9680.

PAYMENT TERMS

NATIONAL ACCOUNTS:

All new accounts will be on a C.O.D. basis, cash or certified check. A credit application can be processed after a purchase history having a total volume of $5,000.00. On open credit accounts our standard terms of sale are net 30 days following the date of the invoice. There are no discounts for early payment. We accept Visa or MasterCard.

INTERNATIONAL ACCOUNTS:

SALCO also accepts orders from other countries. International orders will be processed on receipt of a Cashier's Check in U.S . funds or a direct wired Telegraph Transfer (TT) to our U.S. bank.

INTEREST ON PAST DUE ACCOUNTS:

Interest at maximum legal rate or 1 1/2% per month, whichever is lower, may be charged on overdue accounts and such amount will be charged from the date the account became overdue.

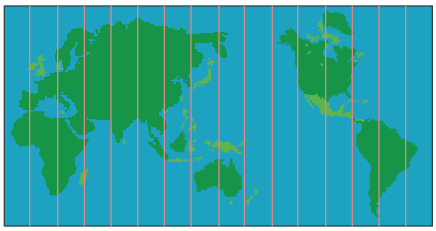
MINIMUM ORDER

The minimum acceptable order is $25.00.

PRICES

Prices are subject to change without notice. Those in effect when we receive your order will apply. All prices are in U.S. currency, F.O.B. Sarasota, Florida.

SHIPMENTS



Unless you request a specific shipping method, our staff will determine the most expedient and efficient means of transportation. Appropriate charges such as freight, handling, and insurance will be added to your invoice. SALCO ships most of its orders via United Parcel Service by one of three methods and are as follows:

1. Ground Service **(Brown Label)** - Delivery is approximately 2 to 7 working days for most of the continental United States and some parts of Alaska and Hawaii. The cost of Ground Service is the most economical of all three services.

2. Air Service **(Blue Label)** - Delivery is approximately 2 to 3 working days for most of the Continental United States and some parts of Alaska and Hawaii. The cost, however, is two to three times greater than UPS "Ground Service".

3. Air Service **(Red Label)** - Delivery is overnight for most of the Continental United States and some parts of Alaska and Hawaii. The cost is two to three times greater than Air Service (Blue Label).

For physically large and heavy shipments, Common Carrier truck is most economical. FEDEX, DHL, and others are also available. Shipping charges are F.O.B. Sarasota. Florida.

CUSTOM ORDERS

Custom orders and products made to order are by special order only. A 50% down payment must accompany the purchase order and the balance is due on delivery. All custom orders, and products made to order, are non cancellable, non refundable and equipment non returnable except for repairs accompanied with a SALCO authorized Return Authorization Number.

RETURN OF MERCHANDISE

Merchandise for repair should only be returned, shipping charges prepaid, after a Return Authorization Number has been granted by SALCO. All returns are subject to transportation charges. Defects and shortages must be reported within three days after receipt of merchandise All returned merchandise is subject to a 25% restocking charge. We reserve the right to accept products for repair only(not replacement).SALCO has a no return policy on all products shipped. Except for warranty repairs, all repairs are shipped C.O.D. No cash refund. Merchandise credit only.Credit void after 12 months.

FREIGHT DAMAGE

Your order is filled, checked, and rechecked, and packed with great care. If you receive merchandise that has been damaged in transit it is important to keep the shipping carton, packing materials, and merchandise intact.Please contact the shipper immediately to initiate a claim. Also, please contact SALCO customer service.

SALES TAX

Only Florida residents need to remit the appropriate Sales Tax. SALCO is not able to remit sales tax to states other than Florida

WARRANTY

As an expression of confidence that our products will continue to meet the high standards of reliability and performance that our customers expect, SALCO products carry a 365 day warranty (limited). Call or write for full warranty information.

DESIGN CHANGES

Due to continuing improvements in design, some items may differ slightly from the description and photograph in the catalog. If you have any questions, our Application Specialists will be happy to discuss any design improvements and advantages. SALCO does not provide on-site support.

SUBJECT TO CHANGE WITHOUT NOTICE

All prices, merchandise model numbers, specifications, terms and policies are subject to change without notice.

SALCO™
INDUSTRIES

TEL: 941-377-7717
FAX: 941-379-9680
www.salco.com
e-mail: Security@Salco.com

The information presented in this catalog has been carefully checked and is believed to be accurate, however, no responsibility is assumed for inaccuracies. SALCO reserves the right to make changes without further notice to the products specified herein to improve reliability, function, or design.

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

- The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such they have limited transmitter power and therefore limited ranges.
- Receivers may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- A receiver cannot respond to more than one transmitted signal at a time.
- Infrequently used radio links should be tested regularly to protect against undetected interference or faults.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor, dealer, or private installer, and these facts should be communicated to the ultimate users.

FEDERAL COMMUNICATION COMMISSION LICENSING

SALCO long-range supervised-wireless systems require an FCC site license for operation in the U.S.A. Various independent services can be of assistance in frequency coordination and FCC license applications. In addition, FCC rules stipulate the user's call sign must precede all voice transmissions.

SAFETY PRECAUTIONS

The Federal Communications Commission (FCC) has adopted a safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated equipment. In order to limit user exposure to levels substantially below the FCC recommended limits the following guidelines should be adhered to:

DO NOT HOLD THE TRANSMITTER SUCH THAT THE ANTENNA IS IN CLOSER PROXIMITY TO OR TOUCHING EXPOSED PARTS OF THE BODY, ESPECIALLY THE FACE OR EYES WHILE TRANSMITTING. DO NOT ALLOW CHILDREN TO PLAY WITH RADIO TRANSMITTERS. DO NOT OPERATE THE TRANSMITTER NEAR UNSHIELDED ELECTRICAL BLASTING CAPS OR IN AN EXPLOSIVE MANNER.

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DO NOT USE PRODUCTS SOLD BY SALCO INDUSTRIES AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS. Products sold by SALCO INDUSTRIES are not authorized for use as critical components in life support devices or systems. A critical component is any component of a life support devices or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT LIABILITY

SALCO's sole obligation for products that prove tobe defective within 365 days of purchase will be replacement or refund. SALCO gives no warranty either expressed of implied and specifically disclaims all other warranties, including warranties for merchantability and fitness. In no event shall SALCO's liability exceed the buyer's purchase price nor shall SALCO be liable for any indirect or consequential damages. This warranty does not apply to products which have been subject to misuse, neglect, accident, or modification, or which have been soldered or altered during assembly. Call or write for full warranty information.

SALCO™
INDUSTRIES

263 FIELD END STREET, SARASOTA, FLORIDA 34240

TEL: 941.377.7717 FAX: 941.379.9680

salco.com e-mail: Security@Salco.com