

COMMUNICATION CERTIFICATION LABORATORY

TEST REPORT: 73-6741

FCC ID: BZD-SST011198

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Exhibit 8: User's Manual

MODEL SST SUPERVISED WIRELESS TRANSMITTER

SALCO INDUSTRIES

263 FIELD END ROAD
SARASOTA , FL 34240

12/01/98

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by SALCO INDUSTRIES can void the user's authority to operate the equipment. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 0004-0000-00345-4.

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This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: (1.0) This device may not cause harmful interference and (2.0) this device must accept any interference that may be received, including interference that may cause undesired operation.

IMPORTANT!!

This manual should be read and understood in its entirety before attempting to install or program the system. This manual has been developed by SALCO INDUSTRIES and this manual is intended for use only by its industrial and commercial trade customers and service personnel.

The information presented in this manual has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies.

SALCO reserves the rights 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 fault.
- 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.

CAUTION!

The manufacturer strongly recommends that you test security equipment frequently. Over a period of time, no electronic products are better than the inspection and maintenance they receive. Therefore, from the time of installation, it is a good idea to test the supervised security system at least once a week.

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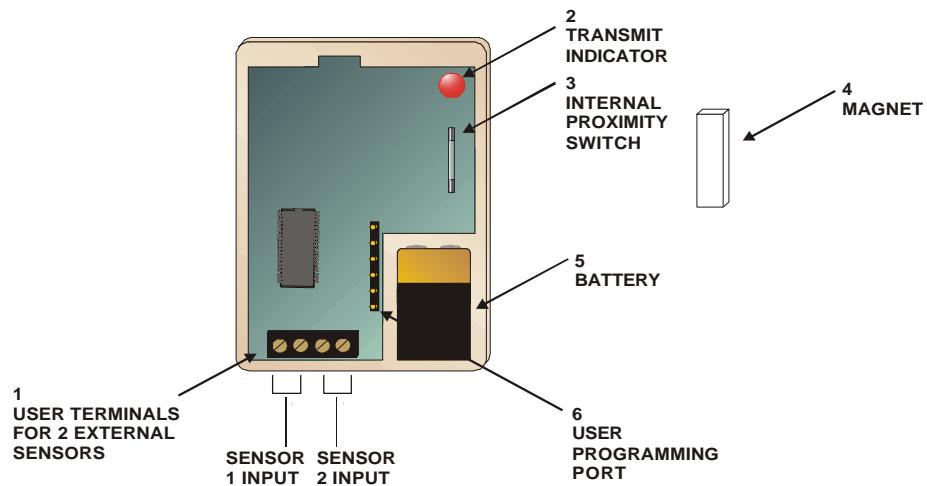
1.0 GENERAL DESCRIPTION

The model SST supervised-wireless transmitter provides a reliable and cost-effective means of transmitting condition or event data from two external sensors to an associated wireless SALCO receiver processor system located up to 500 feet. The SST transmitter supervises the RF link hourly to maintain a high degree of readiness and reliability. In addition, the real time signaling capability of each SST transmitter allows for individual real time sensor status display at the receiver processor.

The SST transmitter incorporates advanced microcomputer design with Nonvolatile memory, which allows user programmability of many features. Among the notable programmable features are single external sensor input activation or dual external sensor input activation with discrete reporting on each individual sensor. An internal proximity sensor is also incorporated for ease of activation or testing with an external magnet. The internal sensor can be programmed to activate zone 1, zone 2, or as a test zone.

2.0 INTERNAL CONTROLS

Internal View



- 1. Sensor Input Port** - Used to connect transmitter to external sensors with dry contact closure of either normally open or normally closed contact type.
- 2. Transmit Indicator** - Illuminates when transmitter transmits a wireless alarm or test signal.
- 3. Magnetic Reed Sensor** - May be used in place of an external sensor wired to port 1 to send alarm or restoral signals to receiver.
- 4. Magnet** - Must be placed in close proximity (less than 1 inch) to reed sensor 3 to restore alarm condition.
- 5. Battery** - 9 volt battery. Use only type MN-1604 Alkaline or Salco type KL-9V lithium for long life.
- 6. Programming Port** - Attach to Salco 959 Programmer to set various programmable features and establish system address and channel I.D. codes.

USER MODES

The SST transmitter has various modes of operation which may be selected by the user
and are described below.

Restore Mode- In the Restore mode the transmitter will transmit an alarm condition to the receiver when the alarm switch is violated. When the alarm switch is restored back to the normal condition the transmitter will transmit a restore signal to the receiver. If the Restore feature is not selected, the transmitter will not send a separate restoral signal to the receiver upon restoration of its activation switch.

Polling Mode- When the Polling mode is selected the transmitter will send a supervisory check in signal to the receiver approximately every 75 minutes to acknowledge proper radio link operation.

Beacon Mode- In the Beacon mode the transmitter will transmit an alarm condition immediately when the alarm switch is violated. If the alarm condition is maintained the transmitter will repeat the alarm message again 3 consecutive times at ½ minute intervals and then will halt further transmission until the next change in status of the alarm switch. When the Beacon mode is off, the alarm signal will be generated once upon initial activation and no further transmission will occur until the next change in alarm switch status.

3.0 SYSTEM POWER-UP AND TEST

1. Apply power to the transmitter. The RED LED (2) will illuminate flashing for several seconds to indicate successful start-up.
2. Violate one of the protective loop sensors. The RED LED (2) will illuminate for several seconds indicating RF transmission to the receiver processor. The receiver processor should then receive the signal, sound its piezo audible, and display the violated sensor's ID number on the display panel. When the violated sensor is restored, the LED for that sensor at the receiver display will extinguish.

4.0 MAINTENANCE

With the exception of replacing batteries, when employed in the transmitter, absolutely no maintenance is required to be performed on the SST transmitters. Defective transmitters must be returned to the factory for repair or replacement after receiving a return authorization number from the factory and mailing the defective unit, prepaid, to:

Repair Department
SALCO INDUSTRIES
263 Field End Road
Sarasota FL 34240

5.0 WARNING NOTICES

SST TRANSMITTERS COMPLY WITH PART 15 OF FCC RULES AND REGULATIONS AND ABSOLUTELY NO ADJUSTMENTS OR ALTERATIONS ARE TO BE MADE ON THE SST TRANSMITTERS.

6.0 SPECIFICATIONS

<u>Number of Sensor Inputs</u>	2
<u>Sensor Contact Type</u>	Normally open or normally closed
<u>Sensor Contact Rating</u>	Hermetically sealed reed/non oxidizing
<u>Modulation</u>	OOK
<u>RF Carrier Frequency</u>	303.875 MHz
<u>Number of Codes</u>	256 system codes 32 channel codes (sensor I.D's)
<u>Power Requirements</u>	9 volts DC (Low voltage signal at 7.25 volts)
<u>Operating Temperature Range</u>	-10° F to 150° F (-20° C to 65° C)
<u>Operating Humidity</u>	90% non-condensing
<u>Physical Dimensions</u>	3" x 2" x 0.9" (77 mm x 51 mm x 23 mm)
<u>Weight</u>	2.6oz (73.86 grams)

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

7.0 WARRANTY

Salco Industries Limited Warranty

IF THIS SALE IS MADE FOR COMMERCIAL PURPOSES THE FOLLOWING IS YOUR LIMITED WARRANTY:

WHAT IS COVERED: Salco Industries warrants to the original purchaser only, its product against defects in materials and workmanship.

HOW LONG COVERAGE LASTS: This warranty is extended only to the original purchaser and last for a period of 365 days from date of purchase.

WHAT SALCO WILL DO: Salco Industries will, for defects occurring within the referenced period, at its option, either repair or replace the product without charge. The repaired or replaced item is then covered by this same warranty for the balance of the 365 day period, or for ninety days whichever is longer.

WHAT IS NOT COVERED: This warranty does not apply to any equipment or any part thereof which has been improperly repaired by others, improperly installed, improperly used, abused, altered, modified, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial number has been altered, defaced or removed. Salco Industries *is not* responsible for any dismantling, re-assembly or reinstallation charges. Repair or replacement that does not qualify for free warranty service will be charged to purchaser at Salco Industries service rates then in effect.

HOW TO GET SERVICE: Return the product, shipping costs prepaid and insured to Salco Industries, 263 Field End Road, Sarasota, Florida 34240 (941-377-7717), *along with a statement* of the nature of the defect, and *purchase receipt* or other proof of date of original purchase. Salco Industries assumes the cost of returning the repaired or replaced product under this warranty.

LIMITS AND EXCLUSIONS: THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER'S EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSSES OR DAMAGES RESULTING FROM ANY CAUSES WHATSOEVER SHALL BE REPAIR OR REPLACEMENT AS SPECIFIED ABOVE. SALCO INDUSTRIES, IT'S SUCCESSORS AND ASSIGNS, SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES, HOWEVER OCCASIONED, AND IN NO EVENT SHALL THE LIABILITY OF SALCO INDUSTRIES EXCEED THE PURCHASE PRICE OF THE PRODUCT. NO SUIT OR ACTION SHALL BE BROUGHT AGAINST SALCO INDUSTRIES, IT'S SUCCESSORS OR ASSIGNS, MORE THAN 1 YEAR AFTER THE ACCRUAL OF THE CAUSE OF ACTION THEREFORE.