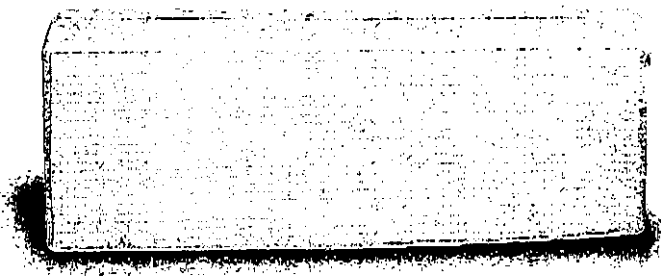


# Wireless Detection

900MHz Spread Spectrum

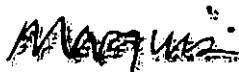
FCC ID: F5398SS15



## WLS915 Universal Transmitter

*Flexible  
and attractive  
to fit a host of  
applications  
and decors!*

For use with:



Standalone Wireless Security System



Hybrid Wireless Security Systems

*900MHz Spread Spectrum wireless technology is superior for security applications because it provides the proven reliability of multiple frequency signal transmission and the high security of an encoded signal. Spread spectrum also provides more frequent supervisory communications between the control panel and sensor... a critical issue in the protection of lives and property!*

- Can be used as a self contained magnetic door or window contact
- Complete with surface mount magnet
- One internal reed-switch contact accommodate different mounting requirements when used as a self contained door or window contact
- Fully supervised by controller for:
  - tamper
  - low battery
  - device fault
  - open/close
- One 3V (EL123AP) alkaline battery (supplied)
- Operating temperature: 32° to 122°F (0° to 50°C)
- Dimensions: 3.43" W x 1.2" H x 1" D  
(8.7 x 3 x 2.5 cm)



Digital Security Controls  
1645 Flint Road, Downsview, Ontario M3J 2J6



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April 7, 1998

UA009 REV02  
TECHNICAL DESCRIPTION

MD 12 is a microprocessor-controlled communicator that serves as a communications interface between our line of security panels and a remote computer.

MD 12 receives and transmits FSK data via the PSTN using proprietary formats unique to DSC communications.

MD 12 receives and transmits RS232 data via a DB25 connector.

As a security panel transmits FSK data to the communicator, the communicator relays the data to the computer via the serial port.

As the computer transmits RS232 data to the communicator, the communicator relays the data to the security system via the PSTN in the form of FSK data.

MD 12 is capable of half duplex and full duplex operation depending on the Baud rate that is used.

# WLS915

## Wireless Universal Transmitter

### INSTALLATION INSTRUCTIONS

#### Remove Cover

To remove the cover of the universal transmitter, squeeze both sides of the unit where the notches are. Pull to release the cover.

#### Install Batteries

Use care when installing the batteries. Follow the guidelines below:

1. Observe the correct polarity (see Figure 1).
2. Install the batteries positive (+) side first (see Figure 2). Use only Eveready Alkaline Energizer batteries. Only replace low batteries with fresh ones. Always replace all three batteries at the same time.

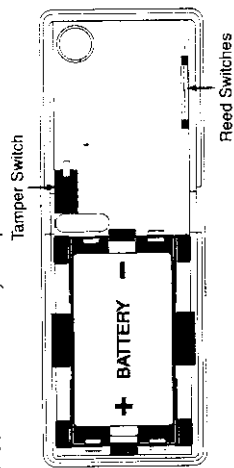


Figure 1

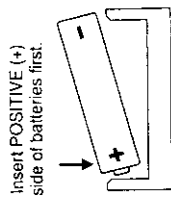


Figure 2

#### Locate Transmitter

Locate where the transmitter is to be mounted. Perform the **Module Placement Test** to ensure that the selected location is in range of the wireless receiver (see receiver Installation Manual for instruction).

Determine where the magnet will be placed. In order to activate the reed switch, the magnet must line up with the end of the transmitter.

#### Remove Circuit Board

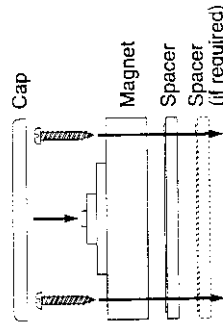
Before mounting the unit, remove the circuit board. Pull the tab located next to the battery compartment. Gently lift the circuit board out of the plastic (see Figure 1).

**NOTE: Do not touch the coils on the circuit board as this may damage the unit.**

#### Mount Transmitter and Magnet

Mount the backplate of the transmitter using the screws provided and replace the circuit board. The head of the screw must be below the circuit board so that the sensor is not shorted out. Use flat-headed screws only.

Mount the magnet no more than 1/4" from the transmitter. Use the spacers provided. Once the unit and magnet are mounted, open and close the window/down to ensure that none of the parts interfere with this movement. Only one magnet can be used per transmitter.



**NOTE: Refer to the PC5132 and PC5010 Installation Instructions for UL requirements.**

#### Using External Contacts

The external contact terminals can be used to connect external contacts or other switches/devices to the universal transmitter. Install the additional device as per the manufacturer's instruction. Connect the device to the contact terminals of the WLS915.

The input is normally closed and is not supervised. A normally open version is also available (WLS915N).

For UL installations, the wires connecting the external device to the input terminals must not exceed 36" (90.5 cm) in length. The contact and transmitter must also be in the same room.

For non-UL installations, the wires connecting the external device to the input terminals can be any length **provided that the resistance of the wire does not exceed 100Ω**.

Only one contact can be used. If an external contact is used, do not install the magnet.

#### FCC COMPLIANCE STATEMENT

**CAUTION:** Changes or modifications not expressly approved by Digital Security Controls Ltd. could void your authority to use this equipment.

This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio 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:

- Re-orient the receiving antenna
  - Relocate the alarm control with respect to the receiver
  - Move the alarm control away from the receiver
  - Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.
- If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 094-009-00345-4.

#### Limited Warranty

Digital Security Controls Ltd. warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in material and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond control of Digital Security Controls Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether express or implied and of all other obligations or liabilities on the part of Digital Security Controls Ltd. This warranty contains the entire warranty. Digital Security Controls Ltd. neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

In no event shall Digital Security Controls Ltd. be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

#### Warning

Digital Security Controls Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.



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