

# ELK-319DWM Wireless Door/Window Mini Sensor



## Description

The ELK-319DWM is a Supervised, Wireless Door Sensor that detects the opening and closing of doors or windows. The small and low profile sensor and magnet are mounted using screws (included) or double-sided adhesive tape (included).

As the door is opened or closed, the sensor transmits an open (trip) or close (restore) signal to the panel. Additionally transmitted signals include: tamper, hourly supervisory, and low battery (as needed). The sensor is powered by two (2) replaceable 3VDC, lithium coin-cell batteries.

This sensor is compatible with Elk's 319MHz Receivers/Panels as well as many other panels that operate on the 319.5MHz Frequency and adhere to the ITI/Interlogix protocol.



## Specifications

RF frequency: 319.5 MHz

Compatibility: ELK-319 Receivers/Panels & other panels that operate on the 319.5MHz Freq. and adhere to the ITI/Interlogix protocol

Battery type: Two (2) 3VDC lithium coin-cell (Panasonic or Varta Model CR2032)

Operating Temp Range: 32 to 120°F (0 to 49°C)

Storage Temp Range: -30 to 140°F (-34 to 60°C)

Relative Humidity: 95% non-condensing

Dimensions 2.25" L x .10 x 0.50" in. (L x W x D)

## Programming (Enrollment)

The following is a general guideline for programming (enrolling) a sensor into the receiver or panel. For more extensive instructions please refer to the receiver or panel instructions.

1. Place the panel into the Program mode.
2. Proceed to the WIRELESS SETUP menu.
3. Select the appropriate zone/sensor location number.
4. When prompted by the panel to trip the sensor for learning:
  - Remove the sensor cover
  - If present pull the battery pull tab out to power the sensor
  - The panel should acknowledge the sensor has been learned by keypad display and/or audio alert (depending on the panel). If enrollment fails to occur repeat the process but remove and reinstall the battery OR try pressing and releasing the tamper plunger.
5. Repeat the above process for any additional wireless sensors. Proceed to the zone programming to assign each sensor's zone definition.
6. Exit programming mode when finished.

## Installation Guidelines and Mounting

- Sensor should be temporarily attached at the desired location and successfully tested with the panel/receiver prior to drilling any holes or permanently mounting.
- Mounting this sensor on metal can negatively affect the transmitting range and magnet gap performance.
- Install the sensor within 100 ft. of the receiver or panel.
- Mount the sensor on the non-moving frame surface and the magnet on the actual moving door. If one sensor is to be used for a double acting door then mount the sensor on the least used gate/door.
- Mount sensors at least 5 inches above the floor to avoid damaging them.
- The sensor can be attached to wood, vinyl, and some metallic surfaces if pre-installation test are positive.
- Align the magnet directly across from the top right edge of the sensor with a gap of no more than 5/16" (8 mm) for wood surfaces and no more than a 1/4" (6 mm) gap for non-wood surfaces.
- Based on the magnet location, spacing, direction of operation and the material of the mounting surface, the gap for opening will vary between 1/8" (3 mm) and 1 3/4" (44 mm). Desired operation should be checked before permanent installation.
- After mounting is completed, retest the sensor using the procedure described.



Mount Sensor on the jamb of the door or window directly opposite the magnet.

Mount Magnet on the moveable portion of the door or window directly opposite the top right corner of the Sensor.

## For Additional Tamper Security

1. Punch out the tamper cover on the bottom of the sensor, and using the small screw secure it to the mounting location, when the sensor is removed "tampered" the tab remains providing a tamper condition.

## Testing the Sensor

It is recommend that all wireless sensors be thoroughly walk tested after installation and programming.

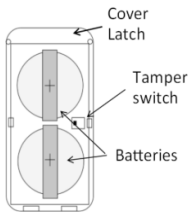
1. Place the panel into the Walk Test mode.
2. Monitor the keypad display as each sensor is tripped. Refer to the receiver or panel for complete instructions. In some cases there may be a signal strength indication.
3. Exit Walk Test mode when finished.

## Battery Replacement

Low Battery trouble will be transmitted when the sensor battery needs to be replaced.

**NOTE: Replace both (2) batteries within 7 days following a low battery trouble indication.**

- Remove the cover from the sensor.
- Carefully slide out the old batteries.



- Insert the two (2) new batteries into the battery holder slots.
- Observe Polarity shown on the lithium coin-cell battery.

**CAUTION: Use only approved 3.0VDC Lithium Battery: Panasonic or Varta model CR2032**

- Replace the cover on the sensor test activate the device at least five times.

## BATTERY WARNING:

**Risk of fire, explosion and burns. Do not attempt to recharge or disassemble. Do not incinerate or expose to heat above 212° F (100° C). Dispose of used batteries properly. Keep away from children.**

## FCC AND IC COMPLIANCE STATEMENT:

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 a residential installation.

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 into 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. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.

FCC ID: 2ABBZ-RF-CMDWS-319

IC: 11817A-RFCMDWS319

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class B digital apparatus complies with Canadian ICES-3B. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Limited Warranty

THIS WIRELESS SENSOR IS WARRANTED TO BE FREE FROM DEFECTS AND WORKMANSHIP FOR A PERIOD OF 2 YEARS FROM DATE OF MANUFACTURE EXCLUDING BATTERIES. BATTERIES USED WITH WIRELESS DEVICES ARE NOT WARRANTED.

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**NOTE: Elk Products is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.**