Honeywell

ADEMCO 5819WHS/5819BRS
WIRELESS SHOCK SENSOR & TRANSMITTER

INSTALLATION AND SETUP GUIDE

GENERAL INFORMATION

The ADEMCO 5819WHS/5819BRS Shock Sensor & Transmitter each feature a built-in shock sensor and are intended for use only with alarm systems that support ADEMCO 5800 Series wireless devices.

The built-in shock sensor is used to detect forcible attack upon the surface to which it is mounted. It is designed to protect window and door surroundings. The sensor is electrically normally closed, but, under shock conditions, goes open-circuit momentarily.

The 5819 supports three unique zones, known as "loops":

- Loop 1 = built-in shock sensor loop, factory-wired to TB1 (normally closed)
- Loop 2 = built-in magnetic reed switch in conjunction with a magnet (normally closed)
- Loop 3 = externally wired, closed-circuit contact loop connected to TB2

The 5819WHS/BRS also has a built-in cover tamper switch that activates when the cover is removed and sends a "check" message to the control.

AREA OF SHOCK PROTECTION

Typical area of coverage is 10 -12 feet (5-6 foot radius). This can vary, depending on the type of window or other mounting surface to which the unit is mounted.

MOUNTING

The description that follows assumes that the unit will be mounted as shown in Diagram 1 below, with the magnet (if used) located to the left of the unit. The unit can be installed in any direction, as long as the relationship of the unit to the magnet is maintained. In addition, the arrow embossed on the built-in shock sensor must face UP when the unit is mounted.

To change the shock sensor's orientation, gently push the sensor away from its mounting hole until it can rotate freely. Twist the sensor until the arrow is pointing UP when the detector is in the desired mounting position; then gently push the sensor until it is fully seated in its mounting hole.

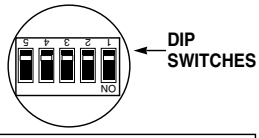
Before mounting the transmitter permanently, conduct Go/No Go tests (see control's instructions) to verify adequate signal strength. Reorient or relocate the transmitter if necessary.

1. Remove transmitter's cover by inserting the flat blade of a small screwdriver into the pry-off slot nearest to the cover's decorative ribs, and twisting the blade.

! Do not remove the printed circuit board from its plastic case!

2. If you are using a wired contact loop, cut the thin "breakout" area provided at the lower edge in the case wall to allow wire entry.
3. Mount the case back to a solid surface using the two mounting holes shown in Diagram 1 below, and the pan-head screws provided.
4. If you are using the unit's reed switch, mount a 5899 Magnet (obtained separately) adjacent to the alignment marks on the case (see Diagram 1 below).
5. If you are using an external contact, remove the battery (if installed) and connect a normally closed contact to TB2. ***NOTE:*** If the contact loops are not used, make no connection across the terminals.

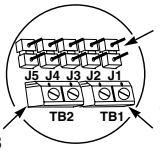
DETAIL A



DIP SWITCHES

TABLE 1		
SWITCH		RESPONSE TIME
SW1	(Most Sensitive)	1mS
SW2		2mS
SW3		5mS
SW4		10mS
SW5	(Least Sensitive)	20mS

DETAIL B



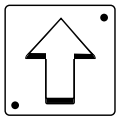
JUMPER PINS

BUILT-IN SHOCK SENSOR TERMINALS (INPUT LOOP 1)

INPUT LOOP 3

TABLE 2		
JUMPER		COUNT
J1	(Most Sensitive)	1
J2		2
J3		4
J4		6
J5	(Least Sensitive)	8

DETAIL C



Embossed arrow on shock sensor must point UP when unit is mounted.

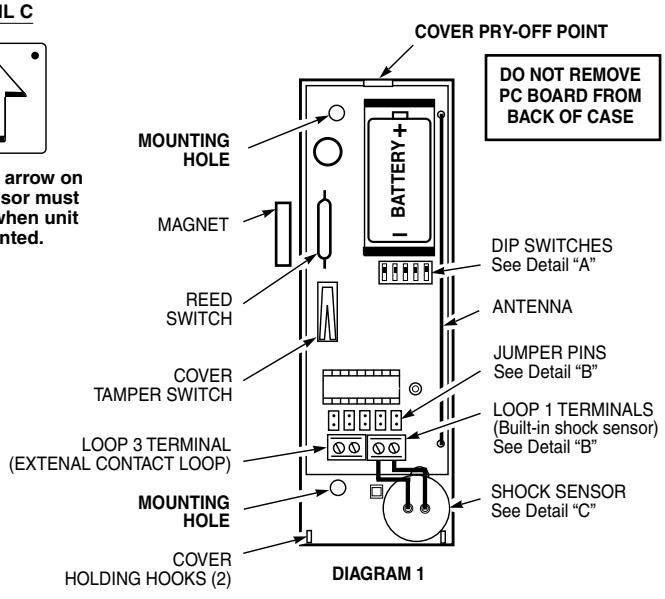


DIAGRAM 1

5819WHS-001-V1

SETTING RESPONSE TIME AND SENSITIVITY

1. Set response time using the DIP switches (use the tip of a pen/pencil). SW1 sets a response time of 1mS (milliSec.), SW5 sets a response time of 20mS. For a response time of 0.5mS, set all DIP switches to OFF (see Table 1).
2. Set the pulse count jumper (see Table 2). The pulse count is reset 3 seconds after the first pulse is detected. There is an LED on the PCB that flashes rapidly on transmission.

   NOTE: Make the device highly sensitive for the purpose of enrolling the shock sensor loop (TB1) into the system (turn SW. 1 on and put jumper on J1). After the device has been enrolled, adjust settings as described in steps 1 and 2 above.

"ENROLLING" THE TRANSMITTER SERIAL NUMBER

Each 5819 Shock Processor has a unique, factory-set serial number (assigned during manufacture) that must be "enrolled" by the control before usage in the system. In addition, each zone (loop) of the transmitter must also be programmed at the control panel during installation. When programming, note the following:

- The battery must be installed before "enrolling."
- Assign each loop to an individual zone number and assign Input Type = 3 (Supervised RF).

  Loop 1 = built-in shock sensor

  Loop 2 = built-in magnetic reed switch

  Loop 3 = externally wired, closed-circuit contact

- Transmit from the unit when prompted, by activating any of its loops or tamper switch as follows:

  Loop 1: Flip the unit upside down, then right side up to activate the sensor.

  Loop 2: Bring the magnet close to the reed switch; then pull the magnet away to open and close the reed.

  Loop 3: Open and close the contact according to its instructions.

  You can also manually enter the unit's serial number.
- Test the unit after "enrolling" into the system using the control's test procedure.

BATTERY INSTALLATION/REPLACEMENT

1. Remove the transmitter's cover as described in Mounting Step 1.
2. Observe correct polarity and insert the battery provided into the battery holder (see Diagram 1 on first side).
3. Replace the cover, engage the hooks along one edge, and snap shut.

Do not bend the antenna.

Note: Replace with **3V 1300mAH Lithium battery** only: Panasonic CR123A, Duracell DL123, DL123A, or ADEMCO 466.

BATTERY CAUTION: Risk of fire, explosion, and burns. Do not recharge, disassemble, heat above 212°F (100°C), or incinerate. Dispose of used batteries promptly. Keep away from children.

UNIT DIMENSIONS

4.8" H x 1.5" W x 1" D

TO THE INSTALLER

Regular maintenance and inspection (at least annually) by the installer and frequent testing by the user are vital to continuous satisfactory operation of any alarm system. The installer should assume the responsibility of developing and offering a regular maintenance program to the user, as well as acquainting the user with the proper operation and limitations of the alarm system and its component parts. Recommendations must be included for a specific program of frequent testing (at least weekly) to ensure the system's operation at all times.

REFER TO THE INSTALLATION AND SETUP GUIDE FOR THE CONTROL PANEL WITH WHICH THIS DEVICE IS USED FOR WARRANTY INFORMATION, AND FOR DETAILS REGARDING THE LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

FCC AND INDUSTRY CANADA STATEMENT

The user shall not make any changes or modifications to the equipment unless authorized by the Installation and Setup Guide or User Guide.

This device complies with Part 15 of the FCC Rules and RSS210 of the Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference (2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la partie 15 des règles de la FCC & de RSS 210 des Industries Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.

Honeywell

2 Corporate Center Drive, Suite 100
P.O. Box 9040, Melville, NY 11747

www.honeywell.com/security

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