

SP3219-1 Single Zone

SP3219-2 Two Zone

SP3219-4 Four Zone

Installation Manual 11/30/06

STLIT02065F

Specifications

Size

Zones	High	Wide	Deep
One	5 inches	3 inches	1-3/8 inches
Two	5-1/4 inches	3-1/4 inches	1-3/8 inches
Four	8-1/4 inches	8-1/4 inches	2-1/4 inches

Input Voltage	10.5 VDC	Minimum
	16.5 VDC	Maximum

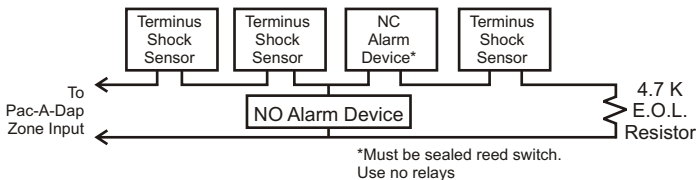
Current	20 mA	SP3219-1
	40 mA	SP3219-2
	80 mA	SP3219-4

Operating Temperature	32°F	Minimum
	120° F	Maximum

Operating Humidity 0-95 % relative (non-condensing)

Introduction

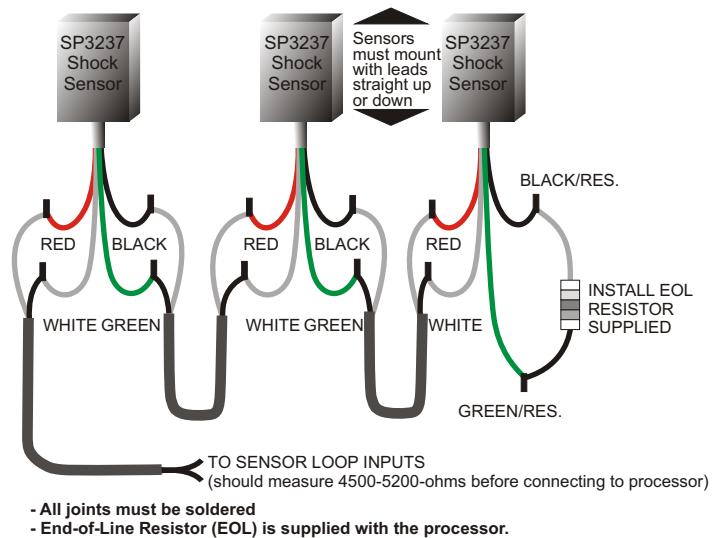
The Terminus PAC-A-DAP Shock Sensor Processor is designed to be used with Terminus shock sensors. The processor is available as a one, two, or four zone unit. The processor will work with any alarm panel and can monitor up to fifty (50) SP3227 or SP3237 shock sensors per zone. Normally-Open and Normally-Closed alarm devices can be included in the same loop. Loop supervision is provided by a 4.7K Ohm end-of-line resistor supplied with each zone. Each zone has separate inputs, outputs, sensitivity and mode selections.



The SP3219 has two operating modes: count mode and glass break mode. When operating a zone in the count mode, the number of individual shock events required to cause an alarm can be set from one to nine counts. These events must occur within an 18 second fixed time period. This 18 second timer starts with the first shock received. If the number selected is not reached within this time period, the timer and counter will automatically reset. When operating a zone in the glass-break mode, one initial shock and any magnitude shock that follows within .6 seconds will cause an alarm.

Sensors

The SP3219 can be used with the SP3227 Recessed Shock Sensor or the SP3237 Terminus Shock Sensor. Applications include windows and walls (masonry, wood, metal or wallboard). The PAC-A-DAP can be used with the SP3223 and SP2539 sensors for wall applications only. Up to 50 sensors can be used on each zone. In addition, normally-open and normally-closed alarm devices can be included in the sensor loop along with the sensors. **Do not use the SP3219 on fence systems. Use the SP3274 for fences.** The diagram below shows typical wiring for the SP3237 shock sensor. Refer to the information sheets shipped with the sensors for installation and placement details.



LED Operation

The shock LED flashes once for each sensor disturbance, or lights continually if loop is open or shorted. The LED does not flash for disturbances in the glass break mode. This LED is used primarily as an installation and service aid.

Installation

1. The one-zone and two-zone processor will mount inside most alarm panels. Mount the unit in a convenient location using the two-faced foam tape provided. Make sure that the terminal strip and switches are accessible.

The four-zone unit can be mounted on the wall near to the alarm panel. Four mounting holes for #8 screws are provided in the back of the enclosure. To install the unit; remove cover, remove both circuit boards, mount the box, and replace the circuit boards. The four zone unit has three 1/2 inch conduit knockouts for wire entry: one on each side and one in the back.

2. Connect sensor wiring to the zone(s). Use the diagrams on the right for the one and two zone units. Use the diagram on the inside front cover for the four zone unit. On each zone, up to fifty (50) Terminus shock sensors may be wired in series with the 4.7K ohm end-of-line resistor which is supplied with the unit.

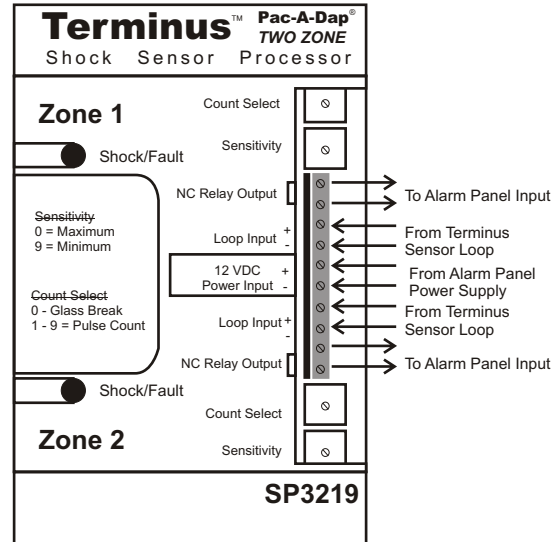
3. Connect the Normally-Closed relay output for each zone (as required) to trip an alarm panel, dialer, etc. The relay switches for approximately 5 seconds on alarm, then automatically resets. Relay contacts are rated at 10VAC, 20VDC, 0.5 A.

4. Connect 12 volts DC to the power input terminals. The Pac-A-Dap requires 20 mA of current per zone to operate. Observe polarity. The input unit is polarity protected and will not operate or be damaged by reversing the input power. The four zone unit will require power and ground connections for both boards.

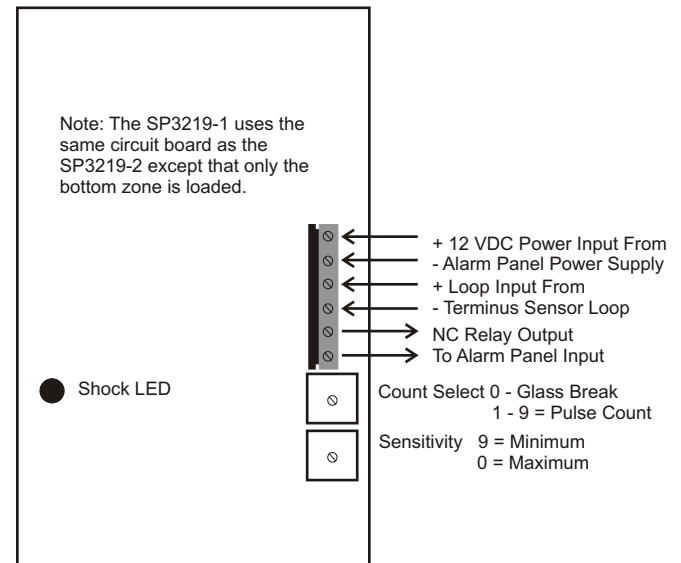
The count select switch and the sensitivity switch are the only adjustments necessary to obtain the optimum set-up of the Pac-A-Dap. There are separate adjustments for each zone. Proper adjustment may require some experimentation to determine the best settings for various materials to which the sensors will be attached.

5. Set count or glass break mode using the count switch. A count switch setting of zero will place the zone in the glass break mode. Any other setting of the count switch will place the zone into count mode for that number of counts. For example, if the count switch is set to three, the zone is set to count mode and will require three events in 18 seconds to alarm.

6. Set the sensitivity. This is accomplished with a 10 position rotary switch which sets the level of shock required before it is further processed by the logic circuitry. A setting of zero indicates maximum sensitivity and a setting of nine indicates minimum sensitivity. In the count mode, the sensitivity adjustment controls the level of shock recognized on every count. In the glass-break mode this adjustment controls only the first shock and the second shock is preset to most sensitive.



SP3219-2 Two Zone Processor



SP3219-1 Single Zone Processor

FCC Notice

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 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 and 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 separation between the equipment and the receiver.
- Connect the equipment into an outlet or circuit different from the one in which the receiver is connected.
- Consult the dealer or an experienced radio-TV technician for help.

Notice

This digital apparatus does not exceed the class B limits for Radio Noise Emissions from digital apparatus set out in the Radio Frequency Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communication du Canada.