

INSTALLATION INSTRUCTIONS

FEATURES

The ADEMCO 4208SNF Universal Class A Module can be used in **either** of two different applications. It can be used as an 8-zone expander, providing Class A and Class B zones on Ademco control panels that support serial number polling loop devices. The module can also be used as a Class B to Class A zone converter.



The ADEMCO 4208SNF may be used as **either** an 8-zone expander **or** a Class B to Class A zone converter; but **not both** in a given installation.

Zone Expander Characteristics

- Provides up to 6 Class B supervised zones using external 10k EOL resistors (supplied) and 2 Class A supervised zones using built-in 10k EOL resistors. When used with control panels that have earth ground fault detection, Class B zones have style B rating and Class A zones have style D rating.
- Can be powered from the polling loop or optionally powered from an external DC power supply (such as the 12V auxiliary power output on a control panel) to reduce current draw from the polling loop
- Each zone is identified by a unique serial number, which is assigned via on-board DIP Switches.
- Detects faults on all zones within 400 msec of occurrence. Two Class B zones (Loops A&B) can be optionally set for fast (10 msec) response via on-board DIP Switches.
- Provides cover tamper protection, which may be enabled or disabled via on-board DIP Switches.

Class B to Class A Zone Converter Characteristics

- Allows up to 2 Class B control panel zones to be converted into Class A zones. This feature must be used with control panels which use 2k EOL resistors and have a grounded return. No external EOLRs are required as they are built in to the module. When used with control panels that have earth ground fault detection, Class A zones have style D rating.
- Control panel's response time to faults on the module's Class A zones is equal to the response time of the control panel's converted Class B zones plus one msec.
- Must be powered from an external 12vdc power supply such as the 12v auxiliary power output on the control panel.

MOUNTING

When used as a zone expander, the 4208SNF may be placed inside the control panel cabinet or mounted remotely. When used as a Class B to Class A zone converter, the 4208SNF must be placed inside the control panel cabinet.



- 1 Power should be disconnected before proceeding.
- 2 Be sure to mount the 4208SNF before making any wiring connections.

UL

For UL Listed Commercial Burglary, the 4208SNF must be tamper protected or mounted in a tamper-protected cabinet such as a UL Listed Commercial Burglary control panel cabinet.

Mounting in Control Panel Cabinet

When mounted inside the control panel cabinet, the 4208SNF cover should be replaced after completing all installation procedures. When used as a zone expander, the cover need not be tamper protected. Set DIP switch position 8 to "ON" (See Figure 1) to disable the cover tamper. When used as a Class B to Class A zone converter, the cover tamper is not operational, regardless of the DIP switch position 8 setting.

Mounting Remotely (For Use as a Zone Expander Only)

When mounted remotely, the 4208SNF may be mounted on a flat surface using the holes on the back of the case (screws not supplied). The cover must be tamper protected. Set DIP switch position 8 to "OFF" (See Figure 1) to enable the cover tamper. You must also enable the zone expander tamper option at the control panel (program field *24=0 on most controls).

Tamper protection is provided by a magnet on the cover and a reed switch mounted on the 4208SNF PCB. When the cover is opened, the 4208SNF reports a tamper fault on each of the module's zones to the control panel. The control panel interprets these faults as troubles or alarms, depending on the response type programmed at the control panel for each zone.

WIRING

Wiring as a Zone Expander

Polling loop and protection loop wires can be brought in through the openings on the sides or back of the case. Use twisted pair wire for polling loop connections (22 gauge may be used except in fire installations where NFPA requires 18 gauge or heavier). Refer to the control panel's installation instructions for limitations on polling loop wire run length.

Class B protection loops use external 10k EOL resistors (zones programmed for Burglary response may use the discrete 10k resistors supplied; zones programmed for FIRE response must use the # 610-13 10k resistors supplied.). Class A protection loops (loops G and H) use 10k EOL resistors built into the module.

A maximum resistance of 300 ohms is allowed on Class B protection loops (excluding EOLR). A maximum resistance of 150 ohms per side is allowed on Class A protection loops. See Figure 1 for all connections.

Connections to the polling loop are always required when module is used as a zone expander; +12vdc power supply connections are optional. Connections to earth ground are recommended for enhanced immunity to lightning when module is mounted remotely.

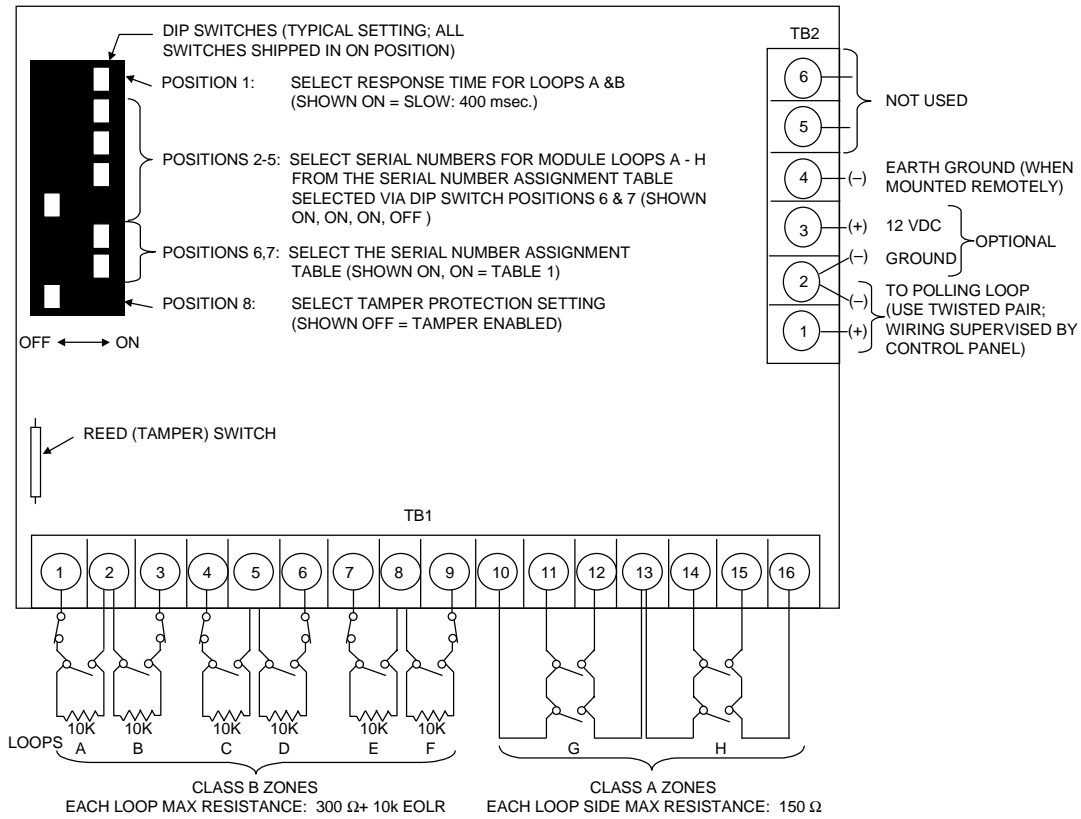


Figure 1: Summary of Connections – Zone Expander

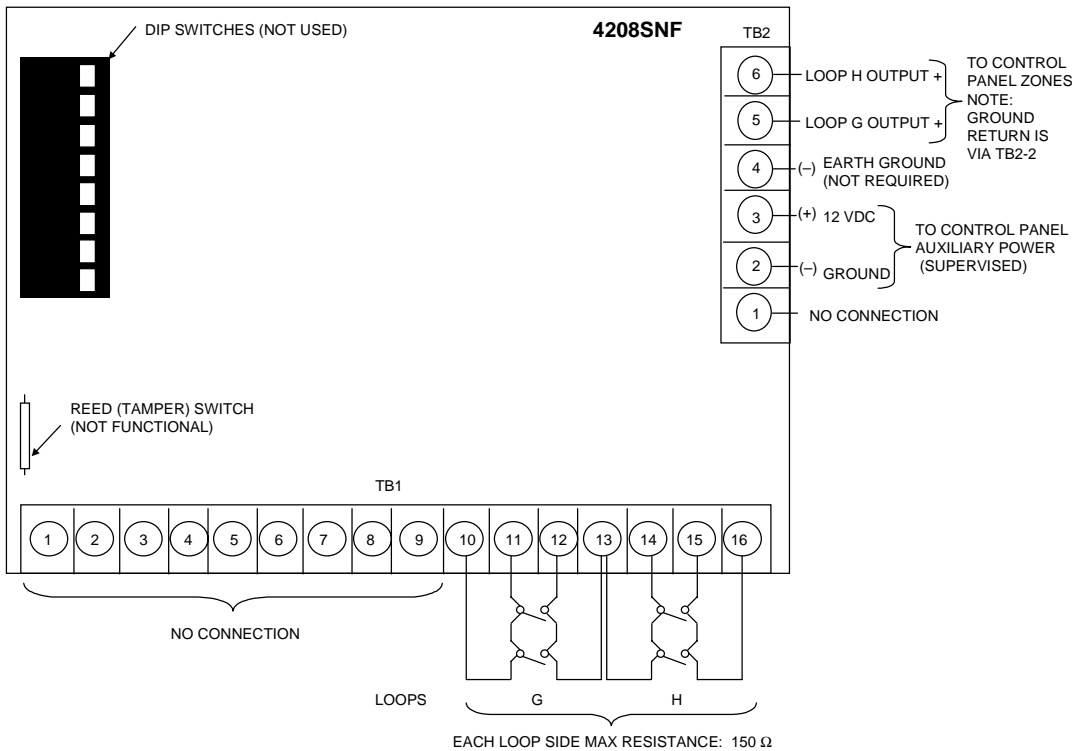


Figure 2: Summary of Connections – Class B to Class A Zone Converter



When external +12V power supply is used, module will attempt to draw power from the polling loop if the external supply is unable to provide power. The control panel will annunciate expander supervision faults if the polling loop becomes overloaded and cannot supply power.

Wiring as a Class B to Class A Zone Converter

Power and Class A protection loop wires can be brought in through the openings on the sides or back of the case. Class A protection loops use 10K EOL resistors built into the module. A maximum resistance of 150 ohms per side is allowed on Class A protection loops.

Connect TB2-5 to the desired control panel Class B zone + input, this zone will respond to the zone status present at the 4208SNF zone G input.

Connect TB2-6 to the desired control panel Class B zone + input, this zone will respond to the zone status present at the 4208SNF zone H input.

Do NOT connect any EOL resistors to the control panel. Connect TB2-3 and TB2-2 to the control panels auxiliary power supply +12v and ground terminals, respectively. Connections to earth ground are not required. See Figure 2 for all connections.

DIP SWITCH SETTINGS

When the 4208SNF is used as a zone expander, the DIP Switches are used to assign serial numbers to loops A-H. You can assign the serial number of any module loop to any of the control panel's expansion zones. You do not lose zone numbers if you do not use all eight module loops. To select serial numbers for loops A-H, follow the steps below using Figure 3 and Tables 1 through 4 for DIP Switch settings:

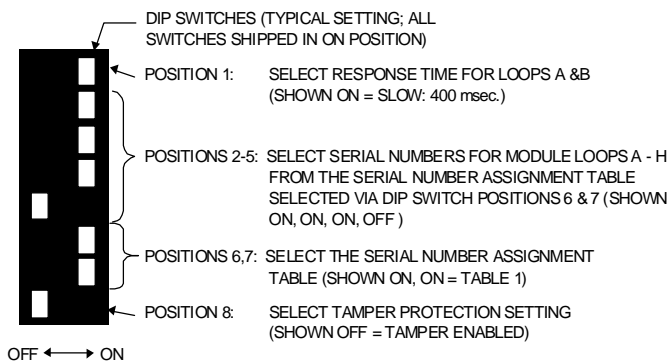


Figure 3: DIP Switch Settings



When the 4208SNF is used as a Class B to Class A Zone Converter, the DIP Switch settings have no effect and can be left in the positions as shipped (all DIP Switches ON).

1. Select fast/slow response for loops A and B using DIP Switch 1: Fast = OFF (10msec); Slow = ON (400msec). **Do NOT select fast response for a zone dedicated for Fire usage.**
2. Select the Serial Number Assignment Table containing the desired group of 8 serial numbers (Tables 1 through 4) using DIP switches 6 and 7.

3. Select the group of 8 serial numbers using DIP switches 2, 3, 4, and 5. See the Table selected in Step 2 for serial number assignments. If using more than one 4208SNF, be sure to set each one to a different group setting.
4. Select the Tamper Protection setting using DIP Switch 8: Tamper Disabled = ON; Tamper Enabled = OFF. Tamper will report for every active zone on the 4208SNF module.

PANEL PROGRAMMING

When the 4208SNF is used as a zone expander, each of the module loops that will be used must be assigned to one of the control panel's expansion zones. To accomplish this, assign a module loop's serial number to a control panel's expansion zone using procedures contained in the control panel's installation instructions. Expansion zones must be programmed as INPUT TYPE "6"-SL (Serial Number Polling Loop Device), which will enable the control panel to accept the serial number. Module loops can be programmed in any order and can be assigned to any legitimate control panel expansion zone.



If enrolling a serial number by faulting its associated loop, be sure that other polling loop devices are not activated, as they may interfere with the device being enrolled.

When prompted to "enroll" the serial number for a particular zone, you may enter the serial number for the associated module loop manually through the keypad or through the V-Link downloader.

You can also have the control panel "enroll" the serial number by momentarily faulting (shorting) the terminals of the associated module loop. If entering a serial number manually through the keypad, enter the serial number and press "*" to advance to the next prompt, which will ask you for the loop number. Enter a "1" for the loop number for each serial number entered.

If enrolling or entering a serial number, and the message "Duplicate of Zone XX" is displayed, another device with that same serial number is already in the system. In that case, use a different serial number group setting on the 4208SNF.

If desired, peel the label corresponding to the serial number assignment table used from the sheet of labels supplied, and apply it to the outside of the case cover or next to the module for future reference.



When the 4208SNF is used as a Class B to Class A Zone Converter, no special control panel programming is required other than selecting a response type for the control panel's converted zone.

VERIFICATION OF PROGRAMMING

To verify proper 4208SNF wiring and programming, fault each of the module loops that are used and verify that the control panel displays the correct zone number on the keypad.

Table 1: 4208SNF Serial Number Assignments

| THE DIP SWITCH SETTINGS PRESET THE LOOPS TO THE APPLICABLE SERIAL NUMBERS | | | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dip Switch Settings (6 & 7 ON selects serial numbers in this table) | | | | | | Loop Serial Number | | | | | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | Prefix | A | B | C | D | E | F | G | H |
| ON | ON | ON | ON | ON | ON | 006- | 5540 | 5541 | 5542 | 5543 | 5548 | 5549 | 5550 | 5551 |
| ON | ON | ON | — | ON | ON | 019- | 6612 | 6613 | 6614 | 6615 | 6620 | 6621 | 6622 | 6623 |
| ON | ON | — | ON | ON | ON | 013- | 9268 | 9269 | 9270 | 9271 | 9276 | 9277 | 9278 | 9279 |
| ON | ON | — | — | ON | ON | 020- | 8900 | 8901 | 8902 | 8903 | 8908 | 8909 | 8910 | 8911 |
| ON | — | ON | ON | ON | ON | 027- | 8532 | 8533 | 8534 | 8535 | 8540 | 8541 | 8542 | 8543 |
| ON | — | ON | — | ON | ON | 034- | 8164 | 8165 | 8166 | 8167 | 8172 | 8173 | 8174 | 8175 |
| ON | — | — | ON | ON | ON | 041- | 7796 | 7797 | 7798 | 7799 | 7804 | 7805 | 7806 | 7807 |
| ON | — | — | — | ON | ON | 048- | 7428 | 7429 | 7430 | 7431 | 7436 | 7437 | 7438 | 7439 |
| — | ON | ON | ON | ON | ON | 055- | 7060 | 7061 | 7062 | 7063 | 7068 | 7069 | 7070 | 7071 |
| — | ON | ON | — | ON | ON | 062- | 6692 | 6693 | 6694 | 6695 | 6700 | 6701 | 6702 | 6703 |
| — | ON | — | ON | ON | ON | 069- | 6324 | 6325 | 6326 | 6327 | 6332 | 6333 | 6334 | 6335 |
| — | ON | — | — | ON | ON | 076- | 5956 | 5957 | 5958 | 5959 | 5964 | 5965 | 5966 | 5967 |
| — | — | ON | ON | ON | ON | 083- | 5588 | 5589 | 5590 | 5591 | 5596 | 5597 | 5598 | 5599 |
| — | — | ON | — | ON | ON | 090- | 5220 | 5221 | 5222 | 5223 | 5228 | 5229 | 5230 | 5231 |
| — | — | — | ON | ON | ON | 097- | 4852 | 4853 | 4854 | 4855 | 4860 | 4861 | 4862 | 4863 |
| — | — | — | — | ON | ON | 104- | 4484 | 4485 | 4486 | 4487 | 4492 | 4493 | 4494 | 4495 |

Table 2: 4208SNF Serial Number Assignments

| THE DIP SWITCH SETTINGS PRESET THE LOOPS TO THE APPLICABLE SERIAL NUMBERS | | | | | | | | | | | | | | |
|---|----------|----------|----------|----------|----------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dip Switch Settings (6 OFF, 7 ON selects serial numbers in this table) | | | | | | Loop Serial Number | | | | | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | Prefix | A | B | C | D | E | F | G | H |
| ON | ON | ON | ON | — | ON | 006- | 5556 | 5557 | 5558 | 5559 | 5564 | 5565 | 5566 | 5567 |
| ON | ON | ON | — | — | ON | 019- | 6628 | 6629 | 6630 | 6631 | 6636 | 6637 | 6638 | 6639 |
| ON | ON | — | ON | — | ON | 013- | 9284 | 9285 | 9286 | 9287 | 9292 | 9293 | 9294 | 9295 |
| ON | ON | — | — | — | ON | 020- | 8916 | 8917 | 8918 | 8919 | 8924 | 8925 | 8926 | 8927 |
| ON | — | ON | ON | — | ON | 027- | 8548 | 8549 | 8550 | 8551 | 8556 | 8557 | 8558 | 8559 |
| ON | — | ON | — | — | ON | 034- | 8180 | 8181 | 8182 | 8183 | 8188 | 8189 | 8190 | 8191 |
| ON | — | — | ON | — | ON | 041- | 7812 | 7813 | 7814 | 7815 | 7820 | 7821 | 7822 | 7823 |
| ON | — | — | — | — | ON | 048- | 7444 | 7445 | 7446 | 7447 | 7452 | 7453 | 7454 | 7455 |
| — | ON | ON | ON | — | ON | 055- | 7076 | 7077 | 7078 | 7079 | 7084 | 7085 | 7086 | 7087 |
| — | ON | ON | — | — | ON | 062- | 6708 | 6709 | 6710 | 6711 | 6716 | 6717 | 6718 | 6719 |
| — | ON | — | ON | — | ON | 069- | 6340 | 6341 | 6342 | 6343 | 6348 | 6349 | 6350 | 6351 |
| — | ON | — | — | — | ON | 076- | 5972 | 5973 | 5974 | 5975 | 5980 | 5981 | 5982 | 5983 |
| — | — | ON | ON | — | ON | 083- | 5604 | 5605 | 5606 | 5607 | 5612 | 5613 | 5614 | 5615 |
| — | — | ON | — | — | ON | 090- | 5236 | 5237 | 5238 | 5239 | 5244 | 5245 | 5246 | 5247 |
| — | — | — | ON | — | ON | 097- | 4868 | 4869 | 4870 | 4871 | 4876 | 4877 | 4878 | 4879 |
| — | — | — | — | — | ON | 104- | 4500 | 4501 | 4502 | 4503 | 4508 | 4509 | 4510 | 4511 |

Table 3: 4208SNF Serial Number Assignments

| THE DIP SWITCH SETTINGS PRESET THE LOOPS TO THE APPLICABLE SERIAL NUMBERS | | | | | | | | | | | | | | |
|---|----------|----------|----------|----------|----------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dip Switch Settings (6 ON, 7 OFF selects serial numbers in this table) | | | | | | Loop Serial Number | | | | | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | Prefix | A | B | C | D | E | F | G | H |
| ON | ON | ON | ON | ON | — | 006- | 5796 | 5797 | 5798 | 5799 | 5804 | 5805 | 5806 | 5807 |
| ON | ON | ON | — | ON | — | 019- | 6868 | 6869 | 6870 | 6871 | 6876 | 6877 | 6878 | 6879 |
| ON | ON | — | ON | ON | — | 013- | 9524 | 9525 | 9526 | 9527 | 9532 | 9533 | 9534 | 9535 |
| ON | ON | — | — | ON | — | 020- | 9156 | 9157 | 9158 | 9159 | 9164 | 9165 | 9166 | 9167 |
| ON | — | ON | ON | ON | — | 027- | 8788 | 8789 | 8790 | 8791 | 8796 | 8797 | 8798 | 8799 |
| ON | — | ON | — | ON | — | 034- | 8420 | 8421 | 8422 | 8423 | 8428 | 8429 | 8430 | 8431 |
| ON | — | — | ON | ON | — | 041- | 8052 | 8053 | 8054 | 8055 | 8060 | 8061 | 8062 | 8063 |
| ON | — | — | — | ON | — | 048- | 7684 | 7685 | 7686 | 7687 | 7692 | 7693 | 7694 | 7695 |
| — | ON | ON | ON | ON | — | 055- | 7316 | 7317 | 7318 | 7319 | 7324 | 7325 | 7326 | 7327 |
| — | ON | ON | — | ON | — | 062- | 6948 | 6949 | 6950 | 6951 | 6956 | 6957 | 6958 | 6959 |
| — | ON | — | ON | ON | — | 069- | 6580 | 6581 | 6582 | 6583 | 6588 | 6589 | 6590 | 6591 |
| — | ON | — | — | ON | — | 076- | 6212 | 6213 | 6214 | 6215 | 6220 | 6221 | 6222 | 6223 |
| — | — | ON | ON | ON | — | 083- | 5844 | 5845 | 5846 | 5847 | 5852 | 5853 | 5854 | 5855 |
| — | — | ON | — | ON | — | 090- | 5476 | 5477 | 5478 | 5479 | 5484 | 5485 | 5486 | 5487 |
| — | — | — | ON | ON | — | 097- | 5108 | 5109 | 5110 | 5111 | 5116 | 5117 | 5118 | 5119 |
| — | — | — | — | ON | — | 104- | 4740 | 4741 | 4742 | 4743 | 4748 | 4749 | 4750 | 4751 |

Table 4: 4208SNF Serial Number Assignments

| THE DIP SWITCH SETTINGS PRESET THE LOOPS TO THE APPLICABLE SERIAL NUMBERS | | | | | | | | | | | | | | |
|---|----------|----------|----------|----------|----------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dip Switch Settings (6 & 7 OFF selects serial numbers in this table) | | | | | | Loop Serial Number | | | | | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | Prefix | A | B | C | D | E | F | G | H |
| ON | ON | ON | ON | — | — | 006- | 5812 | 5813 | 5814 | 5815 | 5820 | 5821 | 5822 | 5823 |
| ON | ON | ON | — | — | — | 019- | 6884 | 6885 | 6886 | 6887 | 6892 | 6893 | 6894 | 6895 |
| ON | ON | — | ON | — | — | 013- | 9540 | 9541 | 9542 | 9543 | 9548 | 9549 | 9550 | 9551 |
| ON | ON | — | — | — | — | 020- | 9172 | 9173 | 9174 | 9175 | 9180 | 9181 | 9182 | 9183 |
| ON | — | ON | ON | — | — | 027- | 8804 | 8805 | 8806 | 8807 | 8812 | 8813 | 8814 | 8815 |
| ON | — | ON | — | — | — | 034- | 8436 | 8437 | 8438 | 8439 | 8444 | 8445 | 8446 | 8447 |
| ON | — | — | ON | — | — | 041- | 8068 | 8069 | 8070 | 8071 | 8076 | 8077 | 8078 | 8079 |
| ON | — | — | — | — | — | 048- | 7700 | 7701 | 7702 | 7703 | 7708 | 7709 | 7710 | 7711 |
| — | ON | ON | ON | — | — | 055- | 7332 | 7333 | 7334 | 7335 | 7340 | 7341 | 7342 | 7343 |
| — | ON | ON | — | — | — | 062- | 6964 | 6965 | 6966 | 6967 | 6972 | 6973 | 6974 | 6975 |
| — | ON | — | ON | — | — | 069- | 6596 | 6597 | 6598 | 6599 | 6604 | 6605 | 6606 | 6607 |
| — | ON | — | — | — | — | 076- | 6228 | 6229 | 6230 | 6231 | 6236 | 6237 | 6238 | 6239 |
| — | — | ON | ON | — | — | 083- | 5860 | 5861 | 5862 | 5863 | 5868 | 5869 | 5870 | 5871 |
| — | — | ON | — | — | — | 090- | 5492 | 5493 | 5494 | 5495 | 5500 | 5501 | 5502 | 5503 |
| — | — | — | ON | — | — | 097- | 5124 | 5125 | 5126 | 5127 | 5132 | 5133 | 5134 | 5135 |
| — | — | — | — | — | — | 104- | 4756 | 4757 | 4758 | 4759 | 4764 | 4765 | 4766 | 4767 |

SPECIFICATIONS

Physical:

Width: 6-7/16" (163mm)
 Height: 4-1/4" (108mm)
 Depth: 1-1/4" (32mm)

Electrical:

Used as a Zone Expander:

Polling loop Voltage: 11V nominal; 8.7 - 14VDC range
 -Current: 33.6mA when polling loop provides power to module; 0.6mA when 12VDC input provides power to module. See Table 5.
 12VDC Input Voltage: 12V nominal; 9.4 - 14VDC range
 -Current: 33mA when this input provides power to module (optional). See Table 5.

Used as a Class A Converter:

12VDC Input Voltage: 12V nominal; 9.4 - 14VDC range
 -Current: 22mA. See Table 5.

Expander Sensor Loop Response:

Slow: 400msec (all loops)
 Fast: 10msec (option for loops A and B)

Expander Sensor Loop Current:

0.52mA (normal)
 1.3mA (shorted)

Note: These currents apply when polling loop input = 11VDC and 12VDC input is not connected to external supply.

Sensor Loop Max. Resistance:

Loops A – F (Class B): Up to 300 ohms of wire resistance + 10k EOLR.
 Loops G, H (Class A): Up to 150 ohms of wire resistance on each side.

AGENCY LISTINGS

- UL985 Household Fire
- UL1023 Household Burglary
- UL609 Commercial Burglary
- UL864 Commercial Fire
- CSFM (pending)
- FM (pending)
- MEA (pending)

Table 5. Current Draw Calculations

| Power Input Source | Expander/ Converter | Current Draw (all zones shorted) | |
|---|------------------------|-------------------------------------|---------------------------|
| | | From Polling Loop | From External Power |
| Polling Loop Only | Expander | 33.6 mA | N/A |
| Polling Loop and External Power Input | Expander | 0.6 mA | 33 mA |
| External Power Only | Converter | N/A | 22 mA |

ADEMCO Limited Warranty

Alarm Device Manufacturing Company, a Division of Pittway Corporation, and its divisions, subsidiaries and affiliates ("Seller"), 165 Eileen Way, Syosset, New York 11791, warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 24 months from the date stamp control on the product or, for products not having an Ademco date stamp, for 12 months from date of original purchase unless the installation instructions or catalog sets forth a shorter period, in which case the shorter period shall apply. Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any product which is proved not in compliance with Seller's specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than Ademco factory service. For warranty service, return product transportation prepaid, to Ademco Factory Service, 165 Eileen Way, Syosset, New York 11791.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO CASE SHALL SELLER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

Seller does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the products will in all cases provide adequate warning or protection. Customer understands that a properly installed and maintained alarm may only reduce the risk of a burglary, robbery, fire or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. However, if Seller is held liable, whether directly or indirectly, for any loss or damage arising under this Limited Warranty or otherwise, regardless of cause or origin, Seller's maximum liability shall not in any case exceed the purchase price of the product, which shall be the complete and exclusive remedy against Seller. This warranty replaces any previous warranties and is the only warranty made by Seller on this product. No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorized.

FEDERAL COMMUNICATIONS COMMISSION (FCC) Part 15 STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, 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 a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user or master may find the following booklet prepared by the Federal Communications Commission helpful:

"Interference Handbook"

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402.

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

SEE THE CONTROL PANEL'S INSTALLATION INSTRUCTIONS FOR COMPLETE INFORMATION REGARDING THE LIMITATIONS OF THE ENTIRE SECURITY SYSTEM.

ADEMCO
GROUP

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K3179 7/98

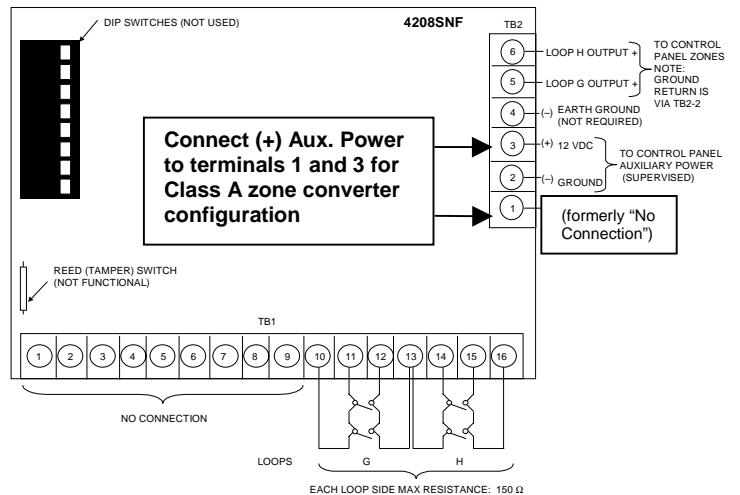
ADDENDUM TO: INSTALLATION INSTRUCTIONS 4208SNF

Use with Issue: K3179 dated 7/98

RE: Class A Zone Converter Current Drain

When wiring the 4208SNF as a Class A zone converter (see Installation Instructions Figure 2), connect the Control's +12VDC auxiliary power to screw terminal TB2-3 on the 4208SNF board as shown in Figure 2 **AND** to TB2-1, which is shown as "No Connection." This connection is required to ensure that the current drawn by the 4208SNF in the Class A converter configuration does not exceed the 22mA rating (as stated in Installation Instruction Table 5). Failure to make this connection will result in a larger current drain.

NOTE: This wire connection is **NOT** required when the 4208SNF is wired as a polling loop Class A zone expander (see Installation Instructions Figure 1). In this configuration, the currents specified for the expander in Table 5 may be used.



Installation Instructions Figure 2

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