

INSTALLATION INSTRUCTIONS

GENERAL INFORMATION

The Ademco No. 4190WH 2-Zone Expander is an accessory for use in Ademco systems (Vector, Vista) supporting polling loop devices.

The 4190WH is a 2-zone (known as left and right loops) RPM. The left loop can be used for closed-circuit devices, with or without EOLR supervision, and for open-circuit devices, with EOLR supervision. The left loop can also be used with fast-response (10 millisecond) devices, if necessary. Follow the chart below for cutting the correct jumpers and choosing the correct resistor when using the left loop.

The right loop is for closed-circuit, unsupervised use only, and has a response time of 400 milliseconds. The jumpers do not affect the right loop in any way. Do not use a resistor on this loop. Note that the right loop can only be used if the left loop is also used, and that the right loop numerically follows the left loop's zone number, which is set with the unit's DIP switches (example, if left loop is zone 12, right loop is zone 13).

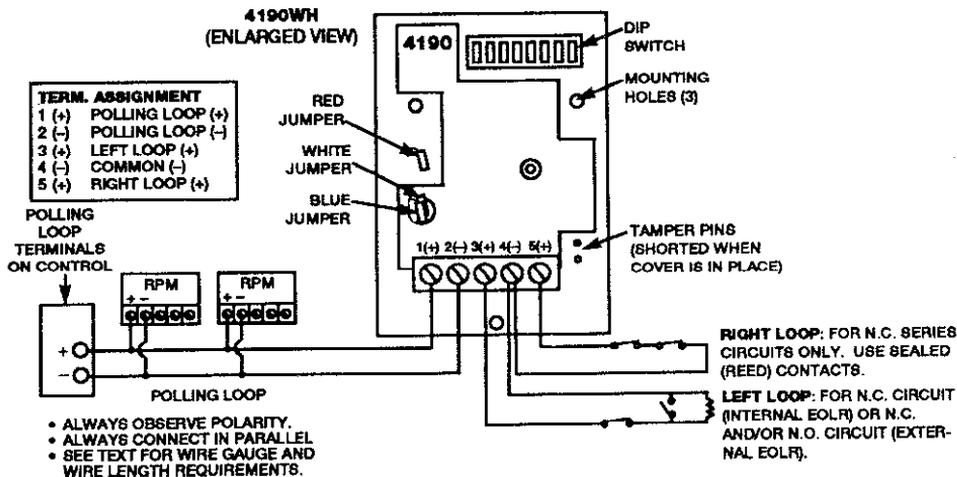
Important:

The tamper/supervision response of the 4190WH is determined by the zone response type assigned to the left loop (even if the right loop is assigned a different response type). While the system is disarmed, tamper/supervisory faults will **always** report as trouble messages. While the system is armed, tamper/supervisory faults will report as troubles if the left loop is assigned a non-burglary response type (i.e. fire, panic, aux), and will report as alarms if assigned a burglary response type.

| JUMPERS | USAGE (LEFT ZONE ONLY) |
|----------|--|
| RED | Cut for fast response (10 msec) |
| WHITE | Cut for low current mode (reed type switches); use the 30,000 ohm resistor, provided. Must be cut if BLUE jumper is cut. 4190WH draws 1 mA from the polling loop in this mode. |
| BLUE | Cut for use with no EOLR (closed-circuit only). Doing this automatically puts an internal 30,000 ohm resistor in series with the zone, <i>so the white jumper must also be cut.</i> |
| NONE CUT | High current mode: Use the 4,700 ohm resistor, provided, with mechanical switches in either an open-circuit or closed-circuit configuration. 4190WH draws 2 mA from the polling loop in this mode. |

UL NOTES:

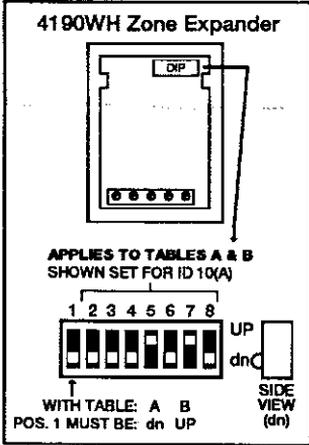
- The Right Loop may not be used for UL Listed Commercial Fire or Burglary installations.
- For UL Commercial Fire usage: Use N.O. contacts on the left loop. Supervise (Style B) this loop using Model # 610-11 Fire-Listed 4.7K ohm EOLR (purchased separately as part of the 4100 EOLR resistor kit).
- For UL Commercial Burglary usage: Use N.O. or N.C. contacts on the left loop. Supervise using either 4.7K ohm or 30 K ohm EOLR supplied.



4190WH DIP SWITCH TABLES

NOTE:

Device IDs 65 through 89 not usable with all control panels. Refer to the control panel's Installation Instructions for this information.



Cover Removal & Mounting:

Remove securing screw at front of unit for cover removal. Spring contacts in cover short the tamper pins on PC board when the cover is in place.

Short is removed when cover is removed.

Three screw holes are provided for mounting purposes (see diagram on other side).

Specifications:

Physical:

Width: 2-1/8" (53 mm)
Height: 3-1/4" (81 mm)
Depth: 1" (25 mm)

Electrical:

Voltage Input:
8-11 volts

Current Drain:
2mA (Hi current);
1mA (Lo current)

THIS TABLE FOR DIPS WITH WORD "OFF" **A**

| DEVICE ID | DIP SWITCH POSITION | | | | | | | |
|------------|---------------------|----|----|----|----|----|----|----|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 10 | dn | dn | dn | UP | dn | UP | dn | dn |
| 11 | dn | dn | dn | UP | dn | UP | UP | UP |
| 12 | dn | dn | dn | UP | UP | dn | dn | dn |
| 13 | dn | dn | dn | UP | UP | dn | UP | UP |
| 14 | dn | dn | dn | UP | UP | UP | dn | dn |
| 15 | dn | dn | dn | UP | UP | UP | UP | UP |
| 16 | dn | dn | UP | dn | dn | dn | dn | dn |
| 17 | dn | dn | UP | dn | dn | dn | UP | UP |
| 18 | dn | dn | UP | dn | dn | UP | dn | dn |
| 19 | dn | dn | UP | dn | dn | UP | UP | UP |
| 20 | dn | dn | UP | dn | UP | dn | dn | dn |
| 21 | dn | dn | UP | dn | UP | dn | UP | UP |
| 22 | dn | dn | UP | dn | UP | UP | dn | dn |
| 23 | dn | dn | UP | dn | UP | UP | UP | UP |
| 24 | dn | dn | UP | UP | dn | dn | dn | dn |
| 25 | dn | dn | UP | UP | dn | dn | UP | UP |
| 26 | dn | dn | UP | UP | dn | UP | dn | dn |
| 27 | dn | dn | UP | UP | dn | UP | UP | UP |
| 28 | dn | dn | UP | UP | dn | dn | dn | dn |
| 29 | dn | dn | UP | UP | UP | dn | dn | dn |
| 30 | dn | dn | UP | UP | UP | UP | dn | dn |
| 31 | dn | dn | UP | UP | UP | UP | UP | UP |
| 32 | dn | UP | dn | dn | dn | dn | dn | dn |
| 33 | dn | UP | dn | dn | dn | dn | dn | dn |
| 34 | dn | UP | dn | dn | dn | UP | dn | dn |
| 35 | dn | UP | dn | dn | dn | UP | UP | UP |
| 36 | dn | UP | dn | dn | dn | UP | dn | dn |
| 37 | dn | UP | dn | dn | dn | UP | UP | UP |
| 38 | dn | UP | dn | dn | UP | UP | dn | dn |
| 39 | dn | UP | dn | dn | UP | UP | UP | UP |
| 40 | dn | UP | dn | UP | dn | dn | dn | dn |
| 41 | dn | UP | dn | UP | dn | dn | UP | UP |
| 42 | dn | UP | dn | UP | dn | UP | dn | dn |
| 43 | dn | UP | dn | UP | dn | UP | UP | UP |
| 44 | dn | UP | dn | UP | dn | dn | dn | dn |
| 45 | dn | UP | dn | UP | dn | dn | dn | dn |
| 46 | dn | UP | dn | UP | UP | UP | dn | dn |
| 47 | dn | UP | dn | UP | UP | UP | UP | UP |
| 48 | dn | UP | dn | UP | dn | dn | dn | dn |
| 49 | dn | UP | UP | dn | dn | dn | UP | UP |
| 50 | dn | UP | UP | dn | dn | UP | dn | dn |
| 51 | dn | UP | UP | dn | dn | UP | UP | UP |
| 52 | dn | UP | UP | dn | dn | UP | dn | dn |
| 53 | dn | UP | UP | dn | dn | UP | dn | dn |
| 54 | dn | UP | UP | dn | dn | UP | UP | UP |
| 55 | dn | UP | UP | dn | dn | UP | UP | UP |
| 56 | dn | UP | UP | UP | dn | dn | dn | dn |
| 57 | dn | UP | UP | UP | dn | dn | UP | UP |
| 58 | dn | UP | UP | UP | dn | UP | dn | dn |
| 59 | dn | UP | UP | UP | dn | UP | UP | UP |
| 60 | dn | UP | UP | UP | UP | dn | dn | dn |
| 61 | dn | UP | UP | UP | UP | dn | UP | UP |
| 62 | dn | UP | UP | UP | UP | UP | dn | dn |
| 63 | dn | UP | UP | UP | UP | UP | dn | dn |
| 64 | dn | UP |
| 65 | dn | UP |
| 66 | dn | UP | UP | UP | UP | UP | dn | dn |
| 67 | dn | UP | UP | UP | UP | UP | dn | dn |
| 68 | dn | UP | UP | UP | UP | UP | dn | UP |
| 69 | dn | UP | UP | UP | UP | UP | dn | UP |
| 70 | dn | UP | UP | UP | UP | UP | dn | UP |
| 71 | dn | UP | UP | UP | UP | UP | dn | dn |
| 72 | dn | UP |
| 73 | dn | UP |
| 74 | dn | UP | UP | UP | UP | UP | dn | dn |
| 75 | dn | UP |
| 76 | dn | UP | UP | UP | UP | UP | dn | dn |
| 77 | dn | UP | UP | UP | UP | UP | dn | UP |
| 78 | dn | UP | UP | UP | UP | UP | dn | dn |
| 79 | dn | UP |
| 80 | dn | UP | UP | UP | UP | UP | dn | dn |
| 81 | dn | UP | UP | UP | UP | UP | dn | dn |
| 82 | dn | UP | UP | UP | UP | UP | dn | UP |
| 83 | dn | UP | UP | UP | UP | UP | dn | UP |
| 84 | dn | UP | UP | UP | UP | UP | dn | UP |
| 85 | dn | UP | UP | UP | UP | UP | dn | UP |
| 86 | dn | UP | UP | UP | UP | UP | dn | UP |
| 87 | dn | UP | UP | UP | UP | UP | dn | UP |
| 88 | dn | UP | UP | UP | UP | UP | dn | UP |
| 89 | dn | UP | UP | UP | UP | UP | dn | UP |
| BIT VALUE: | 64 | 32 | 16 | 8 | 4 | 2 | 1 | |

THIS TABLE FOR DIPS WITH WORD "ON" **B**

| DEVICE ID | DIP SWITCH POSITION | | | | | | | |
|------------|---------------------|----|----|----|----|----|----|----|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 10 | UP | UP | UP | dn | UP | dn | UP | dn |
| 11 | UP | UP | UP | dn | UP | dn | UP | dn |
| 12 | UP | UP | UP | dn | UP | dn | UP | UP |
| 13 | UP | UP | UP | dn | UP | dn | UP | dn |
| 14 | UP | UP | UP | dn | UP | UP | dn | dn |
| 15 | UP | UP | UP | dn | UP | UP | UP | UP |
| 16 | UP | UP | UP | dn | UP | UP | UP | UP |
| 17 | UP | UP | UP | dn | UP | UP | UP | UP |
| 18 | UP | UP | UP | dn | UP | UP | UP | UP |
| 19 | UP | UP | UP | dn | UP | UP | UP | UP |
| 20 | UP | UP | UP | dn | UP | UP | UP | UP |
| 21 | UP | UP | UP | dn | UP | UP | UP | UP |
| 22 | UP | UP | UP | dn | UP | UP | UP | UP |
| 23 | UP | UP | UP | dn | UP | UP | UP | UP |
| 24 | UP | UP | UP | dn | UP | UP | UP | UP |
| 25 | UP | UP | UP | dn | UP | UP | UP | UP |
| 26 | UP | UP | UP | dn | UP | UP | UP | UP |
| 27 | UP | UP | UP | dn | UP | UP | UP | UP |
| 28 | UP | UP | UP | dn | UP | UP | UP | UP |
| 29 | UP | UP | UP | dn | UP | UP | UP | UP |
| 30 | UP | UP | UP | dn | UP | UP | UP | UP |
| 31 | UP | UP | UP | dn | UP | UP | UP | UP |
| 32 | UP | UP | UP | dn | UP | UP | UP | UP |
| 33 | UP | UP | UP | dn | UP | UP | UP | UP |
| 34 | UP | UP | UP | dn | UP | UP | UP | UP |
| 35 | UP | UP | UP | dn | UP | UP | UP | UP |
| 36 | UP | UP | UP | dn | UP | UP | UP | UP |
| 37 | UP | UP | UP | dn | UP | UP | UP | UP |
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| 45 | UP | UP | UP | dn | UP | UP | UP | UP |
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| 52 | UP | UP | UP | dn | UP | UP | UP | UP |
| 53 | UP | UP | UP | dn | UP | UP | UP | UP |
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| 55 | UP | UP | UP | dn | UP | UP | UP | UP |
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| 60 | UP | UP | UP | dn | UP | UP | UP | UP |
| 61 | UP | UP | UP | dn | UP | UP | UP | UP |
| 62 | UP | UP | UP | dn | UP | UP | UP | UP |
| 63 | UP | UP | UP | dn | UP | UP | UP | UP |
| 64 | UP | UP | UP | dn | UP | UP | UP | UP |
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| 66 | UP | UP | UP | dn | UP | UP | UP | UP |
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| 70 | UP | UP | UP | dn | UP | UP | UP | UP |
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| 84 | UP | UP | UP | dn | UP | UP | UP | UP |
| 85 | UP | UP | UP | dn | UP | UP | UP | UP |
| 86 | UP | UP | UP | dn | UP | UP | UP | UP |
| 87 | UP | UP | UP | dn | UP | UP | UP | UP |
| 88 | UP | UP | UP | dn | UP | UP | UP | UP |
| 89 | UP | UP | UP | dn | UP | UP | UP | UP |
| BIT VALUE: | 64 | 32 | 16 | 8 | 4 | 2 | 1 | |



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