



# AL-1210/AL-1220 DGP

## Installation Instructions



### Alliance

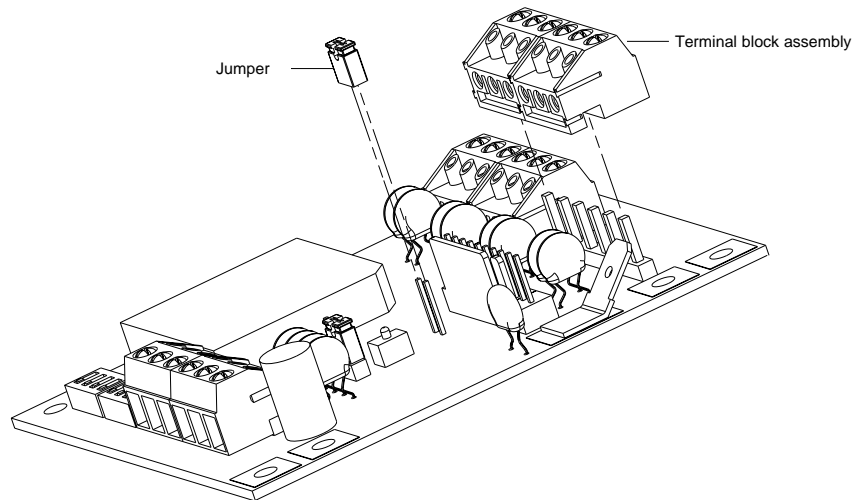


Figure 1. Exploded View

## Product Summary

The AL-1210 is an 8-zone DGP (data gathering panel). The AL-1220 is a 4-zone DGP.

### The Hardware Kit

Each AL-1210/AL-1220 is shipped with the following hardware:

- 6 Three-position terminal blocks (AL-1210) or 4 three-position terminal blocks (AL-1220)
- 4 Clip-in standoffs
- 4 Mounting screws
- 8 EOL resistors (AL-1210) or 4 EOL resistors (AL-1220)
- 2 Jumpers

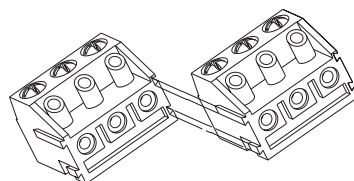
## Installation



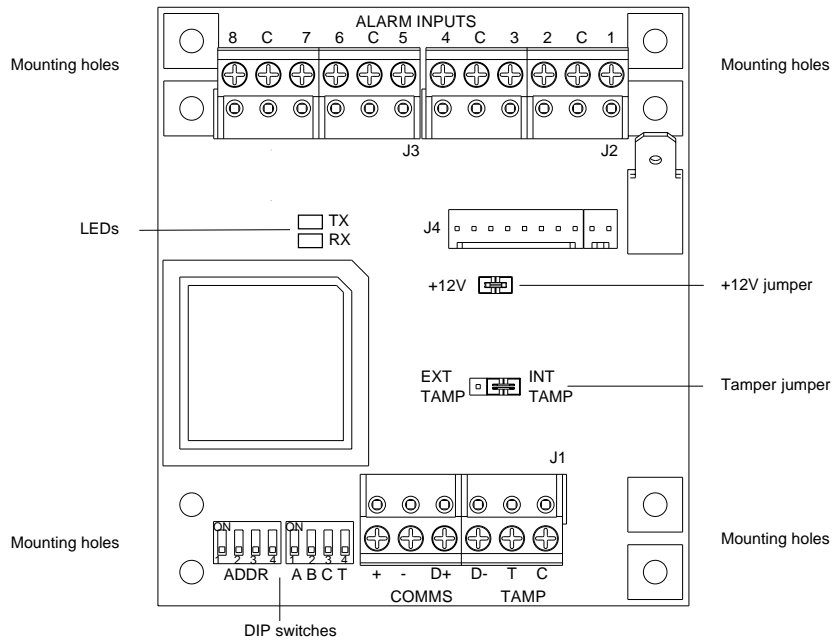
**CAUTION** You must be free of static electricity before handling circuit boards. Wear a grounding strap or touch a bare metal surface to discharge static electricity.

### Mounting the Unit

1. Slide the terminal blocks together as shown below.



2. Slide the terminal blocks over the pins on the board (see Figure 1).



**Figure 2. Wiring, LEDs, and DIP Switch Settings**

3. Slide the jumpers over the pins for the required programming (see Figures 1 and 2).

**+12V Jumper** - If both pins are covered, the board supplies 12V power to a relay output card or an open collector card. If both pins are not covered, power must be supplied by an external auxiliary power supply.

**Tamper Jumper** - If the center pin and the INT pin are covered, the internal tamper switches are active. If the center pin and the EXT pin are covered, the internal tamper switches are disabled.

4. Mount the board in the enclosure using the four clip-in standoffs and the mounting screws (see Figure 2).

5. Wire the board (see Wiring).

**Note** *The system must be powered-down before you wire the board.*

## Wiring

<b>J1</b>	
+, -	12 VDC power supply. It is recommended that where the distance between the AL-1210/AL-1220 and the nearest powered device is more than 330 feet (100m), a separate power supply be used.
D+	Data positive connection of the databus.
D-	Data negative connection of the databus.
T, C	Connect the enclosure tamper switch across these terminals (tamper switch requires normally open contacts).
<b>J2/J3</b>	Each zone requires a 2.2k, 4.7k, or 10k end-of-line resistor (1 or 2 depending on single or dual zone monitoring programmed in the control panel). Do not mix end-of-line resistor values in the system. Do not use dual zone in UL applications.
<b>J4</b>	Open collector or data output and +12 VDC supply for connection to AL-1810, AL-1813, and AL-1820 output cards via a 10-way cable supplied with the output card. Up to sixteen outputs are available with 8-way or 16-way open collector cards (4-way and 8/16-way output cards cannot be used together on the same DGP).

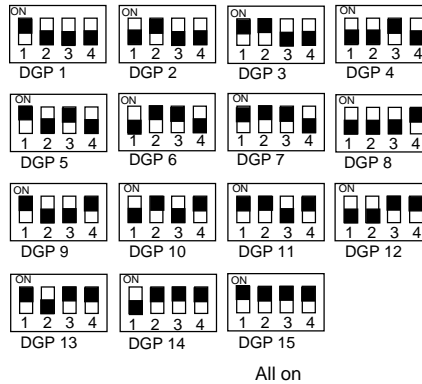
## LEDs

- RX LED flashes to indicate polling data is being received on the system databus from the control panel. If the LED does not flash, the control panel is not operational or the databus is faulty (usually cabling).
- TX LED flashes to indicate the remote arming station (RAS) is replying to polling from the control panel. If the RX LED flashes but the TX LED does not, the RAS is not programmed to be polled in the control panel or is addressed incorrectly.

## DIP Switch Settings

### ADDR - Address DIP Switches Identify the DGP Address

Address DIP Switches



### A B C T - Mode DIP Switches



- A (1) Not used
- B (2) On AL-1813 8-way relay card or AL-1820 16-way open collector card connected to J4  
Off No AL-1813 or AL-1820 units connected to J4 (use this setting if an AL-1810 is connected to J4)
- C (3) Not used
- T (4) On Terminates the databus, this DGP is the last device on the databus.  
Off Not the last device on the databus.

## Zone Numbering

A 4/8-zone DGP can have 4 or 8 zones connected to it. There are 16 zones allocated to every DGP address. Only zones 1 to 4 or 1 to 8 can be used when an AL-1210/AL-1220 is allocated a DGP address. Zones not used (5-16 or 9-16) should be programmed as type 0 (zone disabled) in the zone database.

Control Panel	1 - 16	DGP 8	129 - 144
DGP 1	17 - 32	DGP 9	145 - 160
DGP 2	33 - 48	DGP 10	161 - 176
DGP 3	49 - 64	DGP 11	177 - 192
DGP 4	65 - 80	DGP 12	193 - 208
DGP 5	81 - 96	DGP 13	209 - 224
DGP 6	97 - 112	DGP 14	225 - 240
DGP 7	113 - 128	DGP 15	241 - 256

**Note** The AL-1210/AL-1220 cannot be expanded to provide additional zones.

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## Specifications

Supply voltage	9.0 - 14 VDC
Current consumption	53mA max.
Dimensions (H x W)	3.5" x 3.1" (90mm x 80mm)
Operating temperature	32° to 122°F (0° to 50°C)
Humidity	95% non-condensing
Listings	UL 294 - the Standard for Access Control System Units UL 365 - the Standard for Police Station Connected Burglar Alarm Units and Systems UL 609 - the Standard for Local Burglar Alarm Units and Systems UL 1610 - the Standard for Central-Station Burglar-Alarm Units UL 1635 - the Standard for Digital Alarm Communicator System Units

## FCC

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.

**Note** *In order to maintain compliance with FCC Class B rules, shielded cable must be used (Belden 8723 or equivalent).*



**GE Interlogix**

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