



AL-1330 Power Distribution Board Installation Instructions

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Introduction

This is the GE AL-1330 Power Distribution Board Installation Instructions. Use the AL-1330 board as a simple way to connect Alliance system devices in a star configuration. The board is fitted with a single protected input port and five parallel output ports to provide either traditional power and comms or power alone.

The AL-1330 ships with the following hardware:

- 12 two-position terminal blocks
- Four clip-in standoffs
- Four mounting screws
- Two jumpers



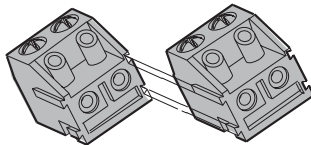
CAUTION: You must be free of static electricity before handling circuit boards. Wear a grounding strap or touch a bare metal surface to discharge static electricity.

Installation

To mount the unit, do the following:

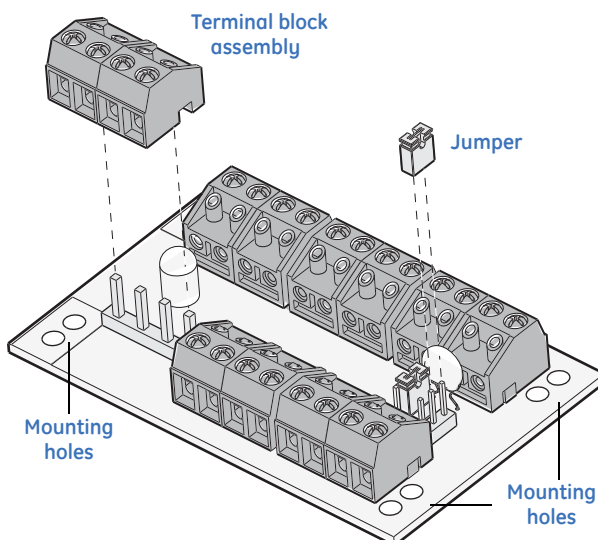
1. Slide the terminal blocks together (Figure 1).

Figure 1. Terminal block assembly



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

Figure 2. Component assembly



3. Slide the jumpers (Figure 2) over the appropriate pins on the board (see Jumper selection on page 2).
4. Mount the board in the enclosure using the four clip-in standoffs and the mounting screws.
5. Wire the board (see Wiring).

Wiring

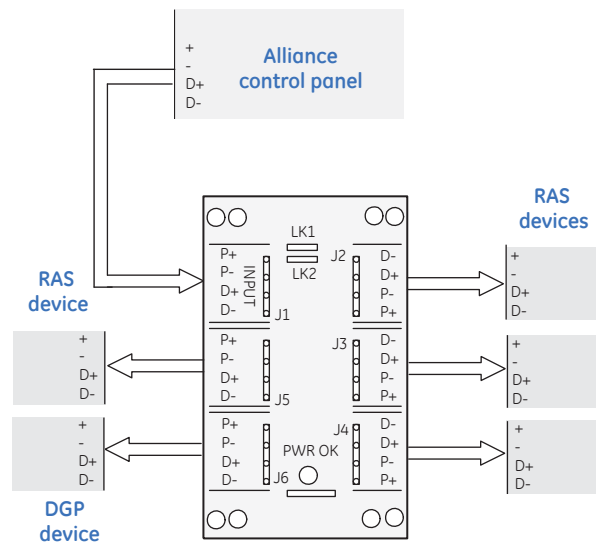
Maximum wire length between the control panel and the AL-1330 is determined by the wire length restrictions between the control panel and the RAS/DGP devices connected to the AL-1330. Maximum wire length between the AL-1330 and the connected RAS/DGP devices is 10 ft. (3 m). We recommend you use Belden 8723 two-pair twisted, shielded data cable for the Alliance system comms bus.

The shield drain wire of each length of data cable is connected at the control panel. Do not connect the shield drain wire at the device end. Tie all the shield drain wire together at the AL-1330.

The TERM jumper is fitted on the first and last devices on the databus. In a star wiring configuration (Figure 3), the TERM jumper is only fitted on the devices at the ends of the two longest databus cable runs.

Connect all earth ground according to the individual device documentation.

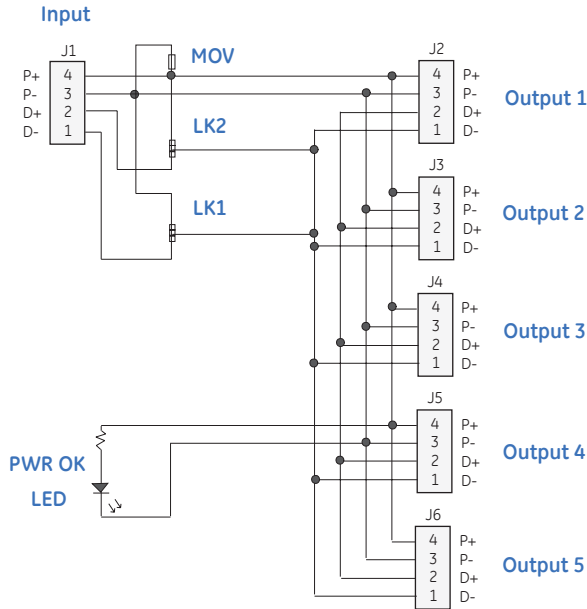
Figure 3. Wiring



Power distribution

Figure 4 shows the power distribution connections.

Figure 4. Power distribution



Jumper selection

The jumper selection for the Data jumper (LK1) and Power jumper (LK2) shown on Figure 3 on page 1 are described in Table 1.

Table 1. Jumper selection

Input	Outputs	
	(LK1, LK2) D+, D- = Power	(LK1, LK2) D+, D- = DATA
P + (+ 12 VDC)	P +	P+
P - (GND)	P -	P-
D +	P +	D+
D -	P -	D-
	Data jumper (LK1) left and center pins covered	Data jumper (LK1) right and center pins covered
	Power jumper (LK2) left and center pin covered	Power jumper (LK2) right and center pins covered

Note: Both jumpers (LK1 and LK2) must be moved as a pair.

Specifications

Supply voltage	9 to 14 VDC
Current consumption	20 mA max.
Operating temperature	32 to 122°F (0 to 50°C)
Humidity	95% noncondensing
Listings	UL 294 the Standard for Access Control System Units UL 365 the Standard for Police Station Connected Burglar Alarm Units 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

Technical support

Toll-free: 888.GESECURity (888.437.3287 in the US, including Alaska and Hawaii; Puerto Rico; Canada).
Outside the toll-free area: Contact your local dealer.