



# AL-1801 Serial Computer and Printer Interface Installation Instructions

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## Description

The AL1801 Computer and Printer Interface board mounts on the Alliance control panel and uses serial interface cables to connect to a computer and/or printer.

The unit ships with the following hardware:

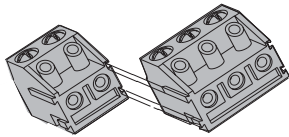
- 2 two-position terminal blocks
- 2 three-position terminal blocks
- 2 mounting screws

## Installation

To install the unit, do the following:

1. Slide the terminal blocks together (*Figure 1*). If you are using the AL-1632 (16 foot) or AL-1633 (49 foot) pre-assembled interface cables, you will not need to use the terminal blocks provided with the unit. However, you will need a DB9 to DB25 adapter to connect either interface cable to the printer.

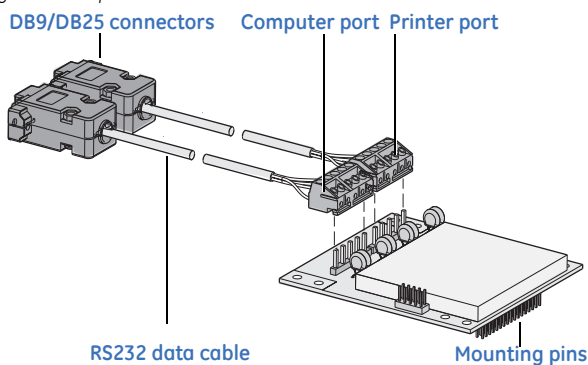
Figure 1. Terminal block assembly.



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

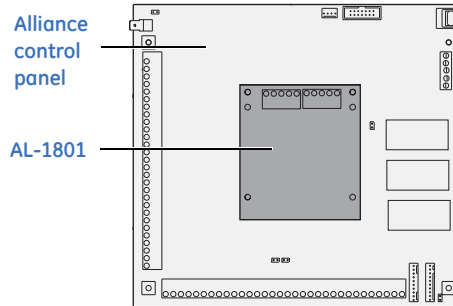
2. Wire the terminal blocks to a DP9 or DB25 connector (see *Wiring*) and slide the terminal blocks over the pins on the unit (*Figure 2*)

Figure 2. Exploded view



3. Disconnect power to the Alliance control panel before mounting the AL-1801. Slide the mounting pins located on the bottom of the AL-1801 (*Figure 2*) into the J11 connector on the control panel and secure the unit with the mounting screws provided (*Figure 3*).

Figure 3. Mounting the AL-1801 on the Alliance control panel

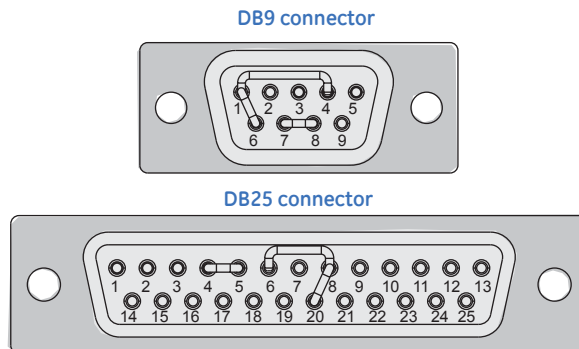


4. Connect the AL-1801 to the computer and printer (see *Wiring*). For a list of compatible printers, see the *Alliance Programming Manual* or software management program.

## Wiring

Use a 4-core shielded RS232 data cable (not twisted pair) with DB9 or DB25 connectors (*Figure 4*) to connect the AL-1801 ports to the computer and/or printer. Maximum cable length is 50 feet (15 m).

Figure 4. DB9 and DB25 connectors



*Table 1* shows the computer port wiring connections.

*Table 1. Computer port connections*

AL-1801 Computer port	Computer	DB9	DB25
TXDA (red)	RX	2	3
RXDA (green)	TX	3	2
CTSA (white)	DTR (Ready)	1, 4, 6	6, 8, 20
RTSA	Not connected	-	-
GND (black)	GROUND Link RTS/CTS Shield	5 Link 7/8 -	7 Link 4/5 1

Table 2 shows the printer port wiring connections.

Table 2. Printer port connections.

AL-1801 printer port	Computer	DB9	DB25
TXDB (red)	RX	2	3
RXDB (green)	Not connected	-	-
CTSB (white)	DTR (Ready)	4	20
RTSB	Not connected	-	-
GND (black)	GROUND Link RTS/CTS	5	7 Link 4/5

The CTS (clear to send) terminal signals the control panel that the printer is ready to receive data from the printer DTR (data terminal ready). The AL-1801 will not generate printer data unless the CTS terminal is high (8 to 11 VDC). If the AL-1801 is programmed to print correctly and no printout is occurring, check the voltage on the CTS terminal. If it does not read high, check the cabling and the printer's DTR output settings.

## Programming

The AL-1801 printer port can be programmed to provide real-time printer output, or to print history alarm events stored in memory. Baud rate and data format options can also be selected.

The computer port requires that a computer address be programmed in the Alliance system programming menu. See the *Alliance Programming Manual* for more information.

## Specifications

Current consumption	25 mA (standby) 80 mA max. (when both ports active)
Operating temperature	32 to 122°F (0 to 50°C)
Max. relative humidity	95% noncondensing
Dimensions	3.5 in. (90 mm) H x 3.4 in. (86 mm) W
Listings	UL 294, UL 365, UL 609, UL 1610, UL 1615

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