

## Serial Expansion Card Installation Instructions

### Installation

Use the following procedure to install serial expansion card (PN 67604) in 720i, 820i and 920i indicators:

1. Disconnect indicator from power source.



**WARNING:** Disconnect power before removing indicator backplate.

2. Place indicator face-down on an anti-static work mat. Remove screws that hold the backplate to the enclosure body.



**CAUTION:** Use a wrist strap to ground and protect components from electrostatic discharge (ESD) when working inside the indicator enclosure.

3. Carefully align the large option card with the indicator connector (see [Table 1](#)).

Indicator	Connector
720i	J12
820i	J6
920i	J5 or J6

Table 1. Indicator Option Card Connectors

4. Use the screws and lock washers provided in the option kit to secure the other end of the option card to the threaded standoffs on the CPU board (see [Figure 1](#)).

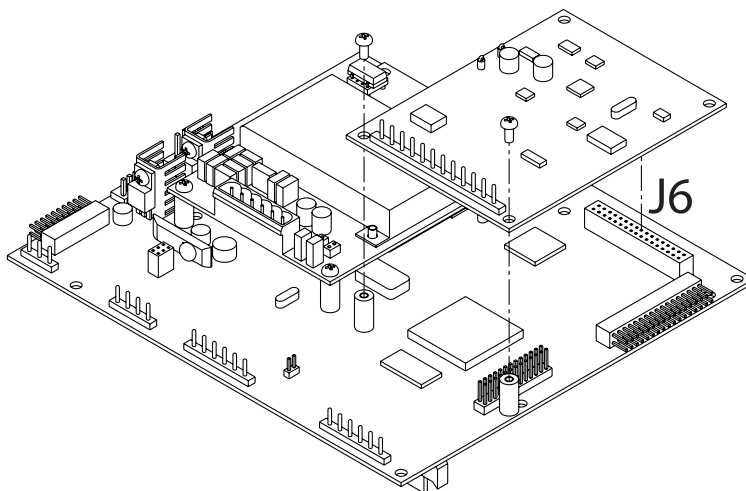


Figure 1. Installing Option Card onto 920i CPU Board

5. Make connections to the option card as required. Use cable ties to secure loose cables inside the enclosure.
6. Once cabling is complete, position the backplate over the enclosure and reinstall the backplate screws.
7. Use the torque pattern shown in the indicator installation manual to prevent distorting the backplate gasket. Torque screws to 15 in-lb (1.7 N-M).
8. Ensure no excess cable is left inside the enclosure and tighten cord grips.
9. Reconnect power to the indicator.

## Configuration

Pin	Description	Marking
1	A: RS-485 RxD+	AR+
2	A: RS-485 RxD-	AR-
3	A: RS-485 TxD-	AT-
4	A: RS-485 TxD+	AT+
5	A: 20mA OUT	A20m
6	GND	RET
7	A: RS-232 TxD	TxA
8	A: RS-232 RxD	RxA
9	B: 20mA OUT	B20m
10	GND	RET
11	B: RS-232 TxD	TxB
12	B: RS-232 RxD	RxB

Table 2. Pin Descriptions

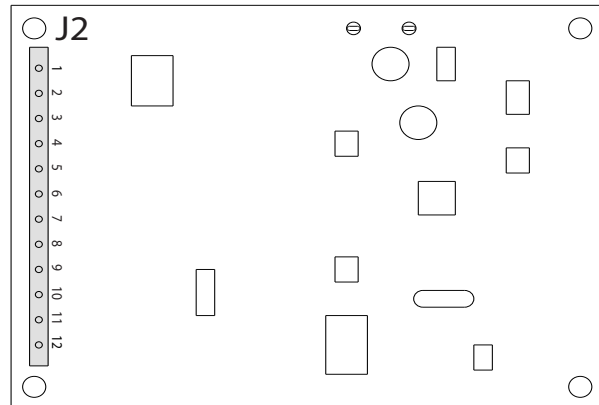


Figure 2. Serial Expansion Card

Configure serial ports using the SERIAL menu as described in the indicator manual. The indicator automatically recognizes all installed option cards when the unit is powered on. No hardware-specific configuration is required to identify the newly-installed card to the system.

Indicator	Connector	Port
720i	J12	7 and 8
820i	J6	7 and 8
920i	J5	5 and 6
	J6	7 and 8

Table 3. Indicator Configurable Ports

## Specifications

Serial Channels	Channel A supports RS-232, 20mA or RS-485 Channel B supports RS-232 or 20mA
Serial type	Compatible with RS-232, RS-422 and RS-485 specifications
Baud Rates	300, 600, 1200, 2400, 4800, 9600, 19200
Input Protection	Short circuit protection, 300W transient voltage suppression Protection for ESD, EFT (electrical fast transients), tertiary lighting and system-generated transients per IEC 60001-4-2, 60001-4-4 and 60001-4-5 European Standards EN50082 and EN61000-4



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