



CARD-CDS-10 (2 RELAYS) CARD-CDS-20 (4 RELAYS) SETPOINT OUTPUT PLUG-IN OPTION CARDS MANUAL

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1. DESCRIPTION

This bulletin serves as a guide for the installation of PAX Setpoint cards. The setpoint cards are available as dual relay, quad relay, quad sourcing transistor, or quad sinking transistor outputs.

2. SPECIFICATIONS

2.1. Setpoint Output Cards

Four types of field installable cards

Response Time: 200msec. max. to within 99% of final readout value (digital filter and internal zero correction disabled) 700msec. max.(digital filter disabled, internal zero correction enabled)

2.1.1. Dual Relay Card: CARD-CDS-10

Type: Two FORM-C relays

Isolation to Sensor & User Input Commons: 2000Vrms for 1 min.

- Working Voltage: 250V

Contact Rating:

- One Relay Energized: 5amps @ 120/240VAC or 28VDC (resistive load), 1/8 HP @120VAC, inductive load
- Total Current With Both Relays Energized not to exceed 5amps

Life expectancy: 100K cycles min. at full load rating. External RC snubber extends relay life for operation with inductive loads

2.1.2. Quad Relay Card: CARD-CDS-20

Type: Four FORM-A relays

Isolation to Sensor & User Input Commons: 2300Vrms for 1 min.

- Working Voltage: 250V

Contact Rating:

- One Relay Energized: 3amps @ 250VAC or 30VDC (resistive load), 1/10 HP @120VAC, inductive load
- Total Current With All Four Relays Energized not to exceed 4 amps

Life Expectancy: 100K cycles min. at full load rating. External RC snubber extends relay life for operation with inductive loads

2.1.3. Quad Sinking Open Collector: CARD-CDS-30

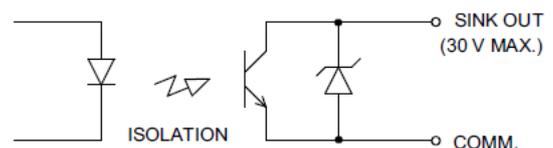
Type: Four isolated sinking NPN transistors.

Isolation to Sensor & User Input Commons: 500Vrms for 1 min.

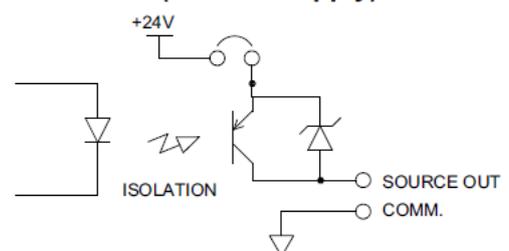
- Working Voltage: 50V, not Isolated from all other commons.

Rating: 100mA max @ VSAT = 0.7V max. VMAX = 30V

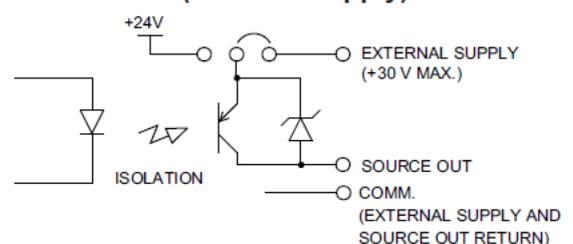
Sinking Output Logic Card



Sourcing Output Logic Card (Internal Supply)



Sourcing Output Logic Card (External Supply)



2.1.4. Quad Sourcing Open Collector: CARD-CDS-40

Type: Four isolated sourcing PNP transistors.

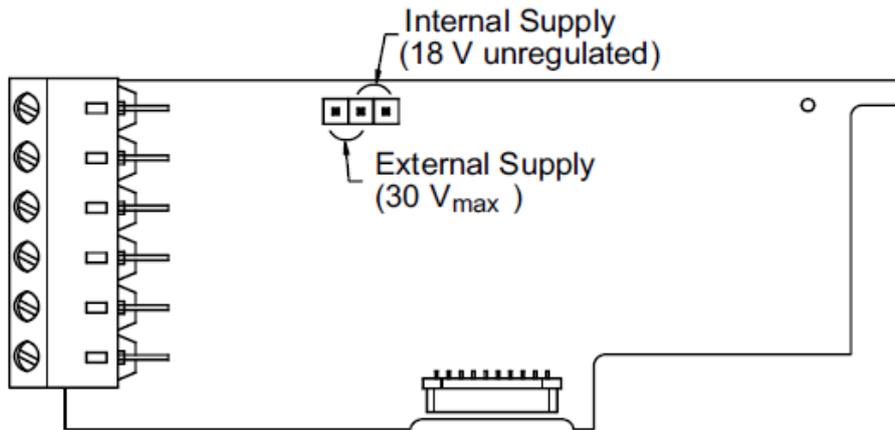
Isolation to Sensor & User Input Commons: 500Vrms for 1 min.

- Working Voltage: 50V, not Isolated from all other commons.

Rating:

- Internal supply: 24VDC \pm 10%, 30mA max. total all four

- External supply: 30VDC max., 100mA max each output



For Quad Sourcing Plug-in Card (CARD-CDS-40), set the jumper for internal or external supply operation before applying power.

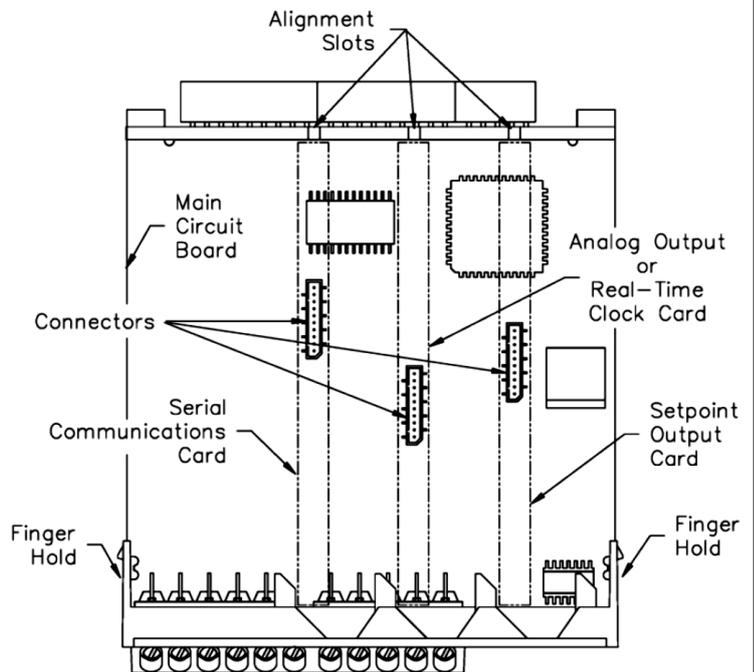
3. INSTALLING AN OPTION CARD



Caution: The option and main circuit cards contain static sensitive components. Before handling the cards, discharge static charges from your body by touching a grounded bare metal object. Ideally, handle the cards at a static controlled clean workstation. Also, only handle the cards by the edges. Dirt, oil or other contaminants that may contact the cards can adversely affect circuit operation.

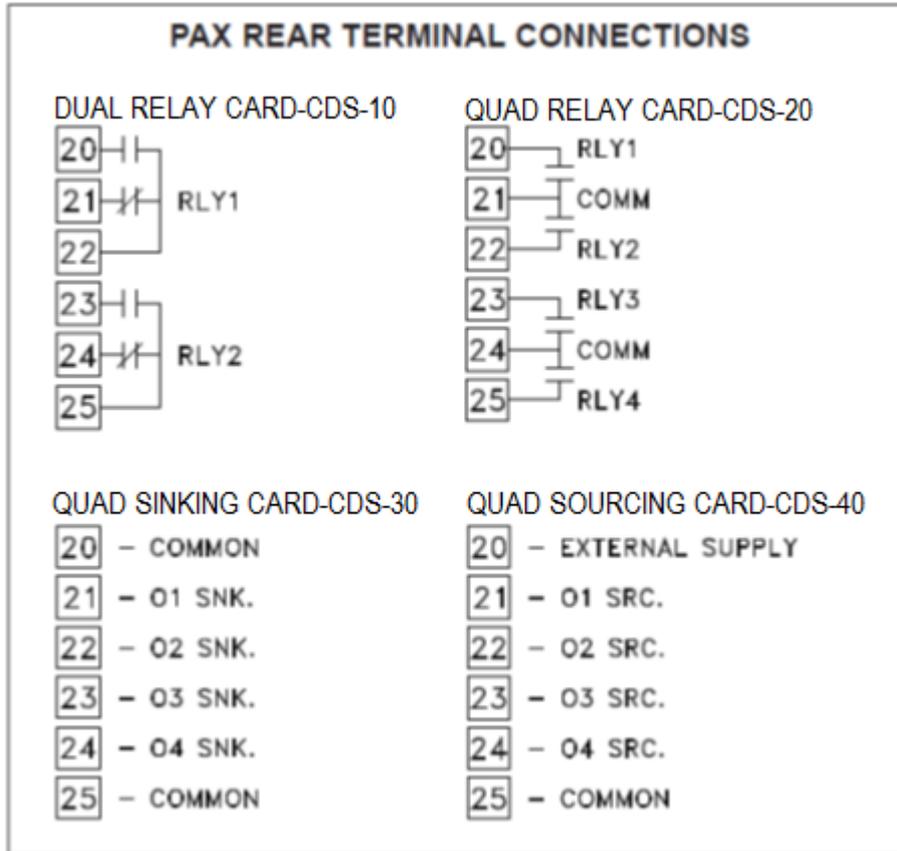


Warning: Exposed line voltage exists on the circuit boards. Remove all power to the meter AND load circuits before accessing the unit.



1. Remove the main assembly from the rear of the case. Squeeze the finger holds on the rear cover, or use a small screwdriver to depress the side latches to release it from the case. It is not necessary to separate the rear cover from the main circuit card.
2. Locate the option card connector for the serial communication card. Hold the unit by the rear cover, not the display board, when installing an option card.

3. Install the option card by aligning the option card with the slot in the rear cover. Be sure the connector is fully engaged and the tab on the option card rests in the alignment slot on the display board.
4. Slide the assembly back into the case. Be sure the rear cover latches fully into the case.



4. ORDERING INFORMATION

<u>MODEL NO.</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
	Dual Relay Output Card	CARD-CDS-10
	Quad Relay Output Card	CARD-CDS-20
CARD-CDS	Quad Sinking Open Collector Output Card	CARD-CDS-30
	Quad Sourcing Open Collector Output Card	CARD-CDS-40