# REDLION®

### MODEL PAXCDL -ANALOG OUTPUT PLUG-IN OPTION CARD

#### DESCRIPTION

This bulletin serves as a guide for the installation, configuration and operation of the PAX<sup>®</sup> Analog Output card. The analog output can be configured for 0 to 20 mA, 4 to 20 mA or 0-10 VDC. Only one range can be used at a time.

#### INSTALLING AN OPTION CARD

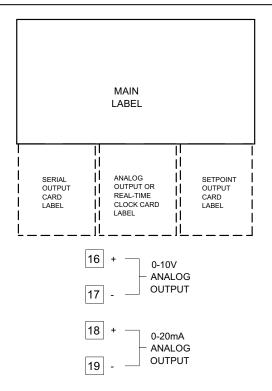


**Caution**: The option and main circuit cards contain static sensitive components. Before handling the cards, discharge static charges from your body by touching a grounded bare metal object. Ideally, handle the cards at a static controlled clean workstation. Also, only handle the cards by the edges.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

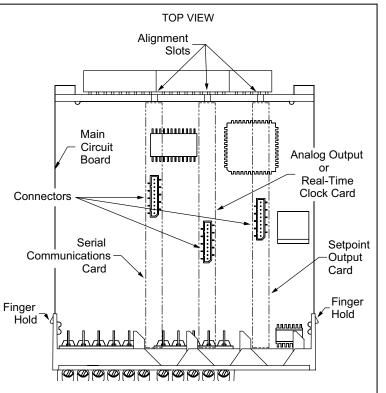


*Warning:* Exposed line voltage exists on the circuit boards. Remove all power to the meter AND load circuits before accessing the unit.

- 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.
- Locate the option card connector for the type of option card to be installed. Hold the unit by the rear connector, not the display board, when installing an option card.
- 3. Install the option card by aligning the option card connector with the slot bay in the rear cover. The cards are keyed by position with different main board connector locations. 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.
- 5. Apply the option card label to the bottom side of the meter. Do not cover the vents on the top surface of the meter. The surface of the case must be clean for the label to adhere properly. Apply the label to the area designated by the large case label.



The PAX<sup>®</sup> meter can be fitted with up to three optional plug-in cards. The slot bays of the plug-in cards are dedicated to a particular card function. The plug-in card functions are: serial communications, analog output and setpoint output. Only one card from each function category can be installed.



#### SPECIFICATIONS

#### Analog Output Card

**Types**: 0 to 20 mA, 4 to 20 mA and 0 to 10 VDC

- Isolation To Sensor & User Input Commons: 500 Vrms for 1 min. Working Voltage: 50 V. Not isolated from all other commons.
- PAXH Only:
  - Isolation To Sensor Common: 1400 Vrms for 1 min. Working Voltage: 125 V
  - Isolation To User Input Common: 500 Vrms for 1 min. Working Voltage: 50 V
- Accuracy: 0.17% of FS (18 to 28°C); 0.4% of FS (0 to 50°C)

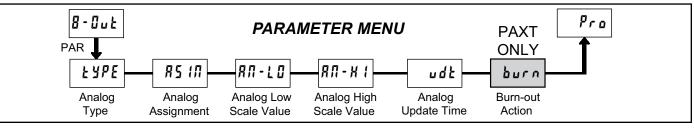
#### Resolution: 1/3500

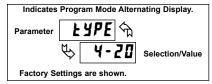
- Compliance:
  - 10 VDC: 10 KΩ load min.
  - 20 mA: 500 Ω load max. (self-powered)
- **Update Time**: 200 msec. max. to within 99% of final readout value (digital filter and internal zero correction disabled)
  - 700 msec. max. (digital filter disabled, internal zero correction enabled)
  - PAXH only: 1 sec. max. to within 99% of final readout value (digital filter disabled)

#### ORDERING INFORMATION

MODEL NO.	DESCRIPTION	PART NUMBER
PAXCDL	Analog Output Card	PAXCDL10

## MODULE 8 - Analog Output Parameters (8- Dut)





#### ANALOG TYPE

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# SELECTION RANGE 0 - 20 0 to 20 mA 4 - 20 4 to 20 mA 0 - 10 0 to 10 V

Enter the analog output type. For 0-20 mA or 4-20 mA use terminals 18 and 19. For 0-10 V use terminals 16 and 17. Only one range can be used at a time.

#### ANALOG ASSIGNMENT

INP HI LO LOL

Enter the source for the analog output to retransmit: inP = Display Input Value H i = Maximum Display Input Value L I = Minimum Display Input Value kak = Totalize Display Value

#### **RED LION CONTROLS TECHNICAL SUPPORT**

If for any reason you have trouble operating, connecting, or simply have questions concerning your new unit, contact Red Lion's technical support.

Support: support.redlion.net Website: www.redlion.net Inside US: +1 (877) 432-9908 Outside US: +1 (717) 767-6511

Red Lion Controls, Inc. 20 Willow Springs Circle York, PA 17406

#### ANALOG LOW SCALE VALUE

#### - 19999 to 99999

Enter the Display Value that corresponds to 0 mA (0-20 mA) , 4 mA (4-20 mA) or 0 VDC (0-10 VDC).



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### - 19999 to 99999

ANALOG HIGH SCALE VALUE

Enter the Display Value that corresponds to 20 mA (0-20 mA), 20 mA (4-20 mA) or 10 VDC (0-10 VDC).

#### ANALOG UPDATE TIME

#### **0,0** to **10,0**

Enter the analog output update rate in seconds. A value of 0.0 allows the meter to update the analog output at a rate of 20/sec.

#### PROBE BURN-OUT ACTION (PAXT ONLY)

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udt m

0.0

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Enter the probe burn-out action. In the event of a temperature probe failure, the analog output can be programmed for low or high scale.

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#### LIMITED WARRANTY

(a) Red Lion Controls Inc. (the "Company") warrants that all Products shall be free from defects in material and workmanship under normal use for the period of time provided in "Statement of Warranty Periods" (available at <u>www.redlion.net</u>) current at the time of shipment of the Products (the "Warranty Period"). EXCEPT FOR THE ABOVE-STATED WARRANTY, COMPANY MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE PRODUCTS, INCLUDING ANY (A) WARRANTY OF MERCHANTABILITY; (B) WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE; OR (C) WARRANTY AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS OF A THIRD PARTY; WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE. Customer shall be responsible for determining that a Product is suitable for Customer's use and that such use complies with any applicable local, state or federal law.

(b) The Company shall not be liable for a breach of the warranty set forth in paragraph (a) if (i) the defect is a result of Customer's failure to store, install, commission or maintain the Product according to specifications; (ii) Customer alters or repairs such Product without the prior written consent of Company.

(c) Subject to paragraph (b), with respect to any such Product during the Warranty Period, Company shall, in its sole discretion, either (i) repair or replace the Product; or (ii) credit or refund the price of Product provided that, if Company so requests, Customer shall, at Company's expense, return such Product to Company.

(d) THE REMEDIES SET FORTH IN PARAGRAPH (c) SHALL BE THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY AND COMPANY'S ENTIRE LIABILITY FOR ANY BREACH OF THE LIMITED WARRANTY SET FORTH IN PARAGRAPH (a). BY INSTALLING THIS PRODUCT, YOU AGREE TO THE TERMS OF THIS WARRANTY, AS WELL AS ALL OTHER DISCLAIMERS AND

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