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Drawing No. LP0401
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MODEL PAXCDL -ANALOG OUTPUT PLUG-IN OPTION CARD

DESCRIPTION

This bulletin serves as a guide for the installation, configuration and operation of the PAX® 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.

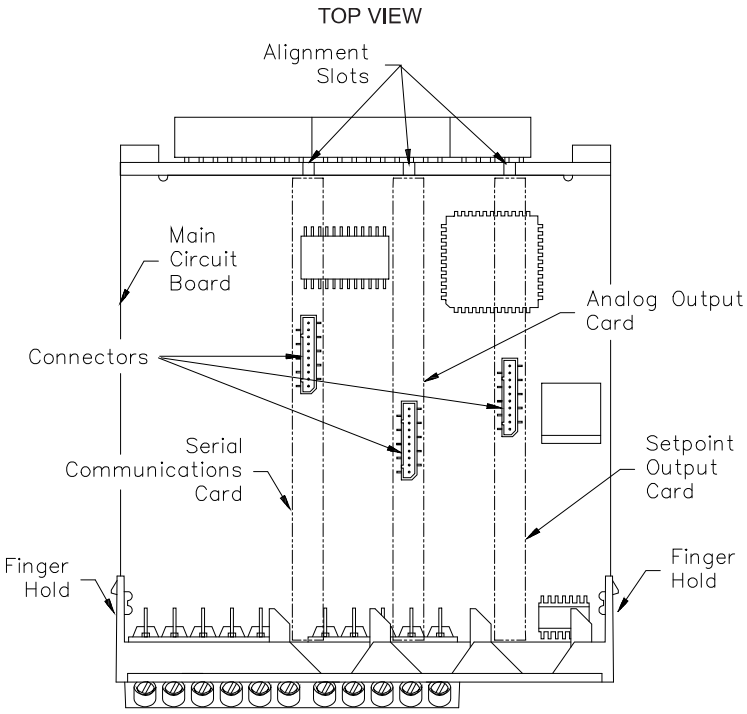
The PAX® meter can be fitted with up to three optional plug-in cards. The slot bays of the plug-in cards are dedicated to a particular card function. The plug-in card functions are: serial communications, analog output and setpoint output. Only one card from each function category can be installed.

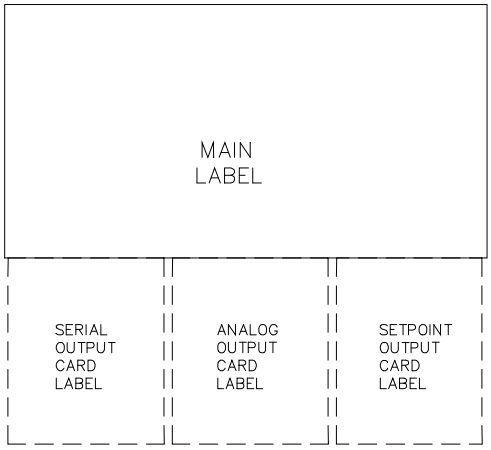
INSTALLING AN OPTION CARD

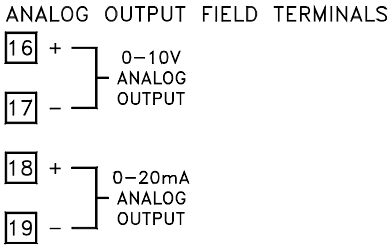
***Caution**: The option and main circuit cards contain static sensitive components. Before handling the cards, discharge static charges from your body by touching a grounded bare metal object. Ideally, handle the cards at a static controlled clean workstation. Also, only handle the cards by the edges. 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 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.







SPECIFICATIONS

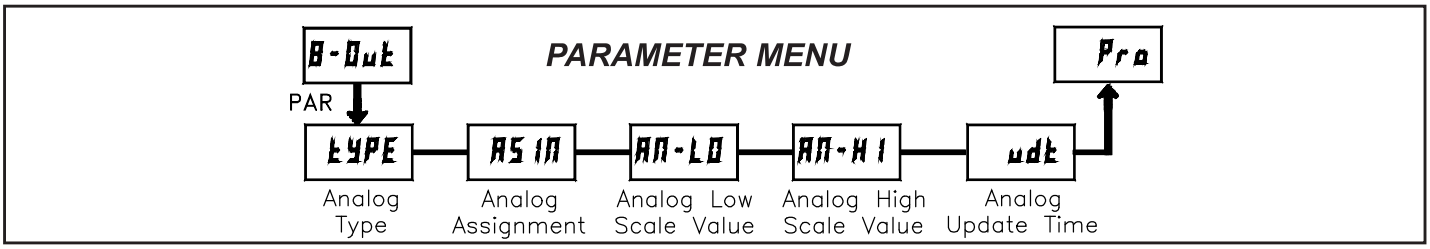
Analog Output Card

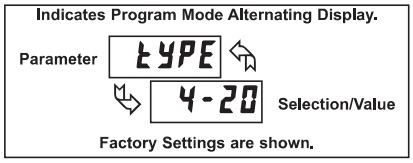
Types: 0 to 20 mA, 4 to 20 mA and 0 to 10 VDC
Isolation To Sensor & User Input Commons: 500 Vrms for 1 min.
Working Voltage: 50 V. Not isolated from all other commons.
PAXH Only:
Isolation To Sensor Common: 1400 Vrms for 1 min.
Working Voltage: 125 V
Isolation To User Input Common: 500 Vrms for 1 min.
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

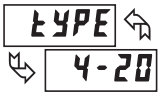
MODEL NO.	DESCRIPTION	PART NUMBER
PAXCDL	Analog Output Card	PAXCDL10

MODULE 8 - Analog Output Parameters (8-Out)





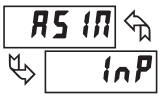
ANALOG TYPE



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.

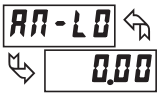
ANALOG ASSIGNMENT



inP HI LO tot

Enter the source for the analog output to retransmit:
inP = Display Input Value
HI = Maximum Display Input Value
LO = Minimum Display Input Value
tot = Totalize Display Value

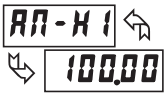
ANALOG LOW SCALE VALUE



-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).

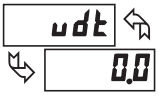
ANALOG HIGH SCALE VALUE



-19999 to 99999

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

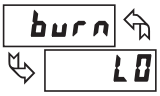
ANALOG UPDATE TIME



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)



LO HI

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.

LIMITED WARRANTY

The Company warrants the products it manufactures against defects in materials and workmanship for a period limited to two years from the date of shipment, provided the products have been stored, handled, installed, and used under proper conditions. The Company's liability under this limited warranty shall extend only to the repair or replacement of a defective product, at The Company's option. The Company disclaims all liability for any affirmation, promise or representation with respect to the products.

The customer agrees to hold Red Lion Controls harmless from, defend, and indemnify RLC against damages, claims, and expenses arising out of subsequent sales of RLC products or products containing components manufactured by RLC and based upon personal injuries, deaths, property damage, lost profits, and other matters which Buyer, its employees, or sub-contractors are or may be to any extent liable, including without limitation penalties imposed by the Consumer Product Safety Act (P.L. 92-573) and liability imposed upon any person pursuant to the Magnuson-Moss Warranty Act (P.L. 93-637), as now in effect or as amended hereafter.

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