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CARD-CDL10

ANALOG OUTPUT PLUG-IN OPTION CARD

MANUAL

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1. 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.

2. SPECIFICATIONS

2.1. Types

0 to 20 mA, 4 to 20 mA and 0 to 10 VDC

2.2. Isolation to sensor & user input commons

500Vrms for 1 min. Working Voltage: 50V. Not isolated from all other commons.

2.3. Accuracy

0.17% of FS (18 to 28°C); 0.4% of FS (0 to 50°C)

2.4. Resolution

1/3500

2.5. Compliance

10VDC: 10KΩ load min.

20mA: 500Ω load max. (Self-powered)

2.6. 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)

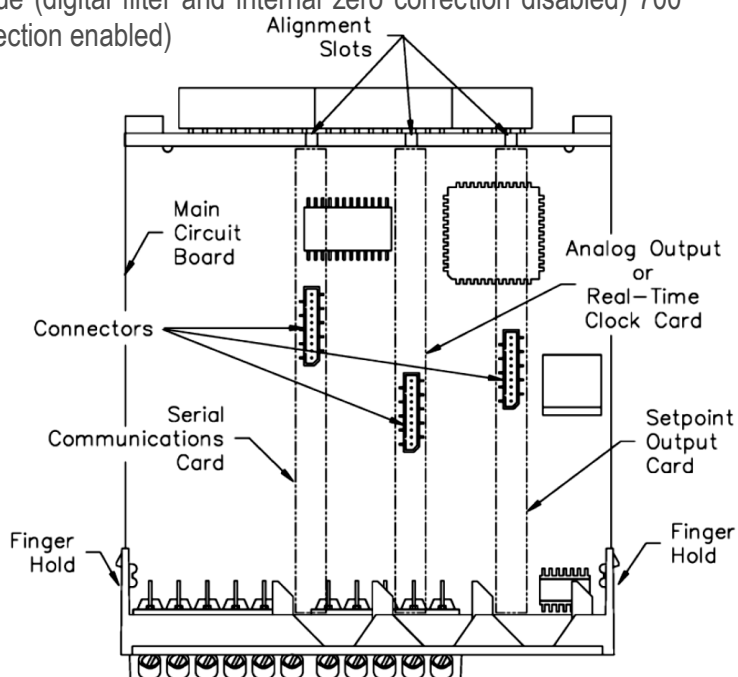
3. INSTALLING AN OPTION CARD



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.

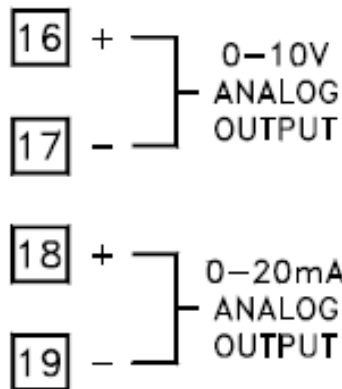


Warning: Exposed line voltage exists on the circuit boards. Remove all power to the meter AND load circuits before accessing the unit.



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.

ANALOG OUTPUT FIELD TERMINALS

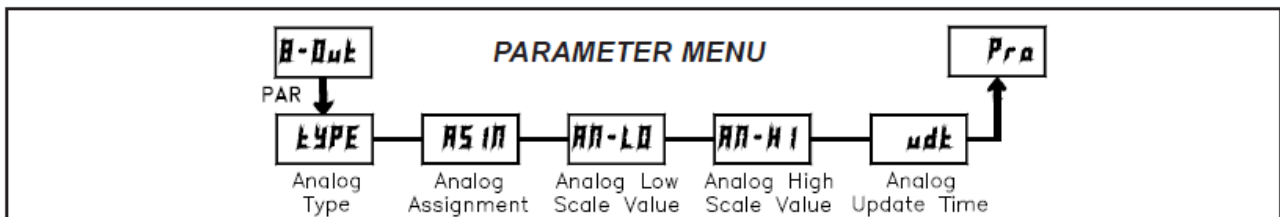


4. ORDERING INFORMATION

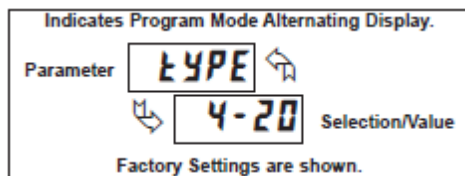
<u>MODEL NO.</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
CARD-CDL	Analog Output Card	CARD-CDL-10

5. MODULE 8 - ANALOG OUTPUT PARAMETERS

MODULE 8 - Analog Output Parameters (B-Out)



5.1. Analog type



Selection

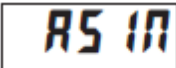
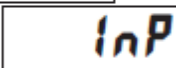
0-20
4-20
0-10

Range

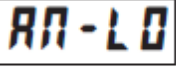

0 to 20mA
4 to 20mA
0 to 10V

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

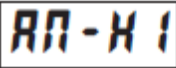

5.2. Analog assignment

	<i>inp</i>	<i>HI</i>	<i>LO</i>	<i>tot</i>
	Enter the source for the analog output to retransmit:			
	<i>inp</i> = Display Input Value			
	<i>HI</i> = Maximum Display Input Value			
	<i>LO</i> = Minimum Display Input Value			
	<i>tot</i> = Totalize Display Value			

5.3. Analog low scale value

	<i>AN-LO</i>	- <i>19999</i>	to	<i>99999</i>
	Enter the Display Value that corresponds to 0 mA (0-20mA), 4 mA (4-20mA) or 0 VDC (0-10VDC).			
				
				

5.4. Analog high scale value

	<i>AN-HI</i>	- <i>19999</i>	to	<i>99999</i>
	Enter the Display Value that corresponds to 20mA (0-20mA), 20 mA (4-20mA) or 10 VDC (0-10VDC).			
				
				

5.5. Analog update time

	<i>udt</i>	<i>0.0</i>	to	<i>10.0</i>
	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.			
