

# NOSHOK 2000 SERIES

# TECHNICAL MANUAL

## ANALOG OUTPUT OPTION CARD

### DESCRIPTION

The 2000 series of meters can be fitted with up to three option cards. The slot bays of the option cards are dedicated to a particular card function. The option card functions are: serial communications, analog output and setpoint output. Only one card from each function category can be installed.

The analog output card has two outputs, voltage or current. Only one output can be selected.

### INSTALLING AN OPTION CARD

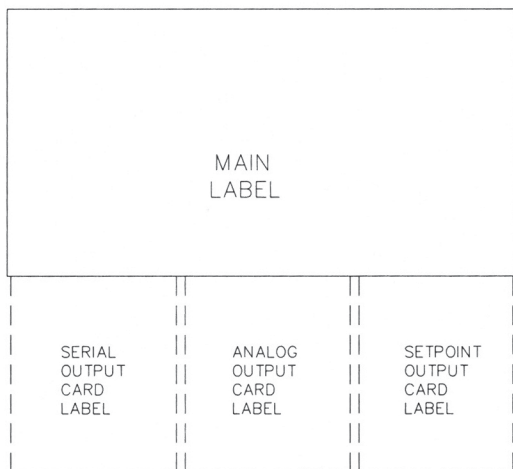
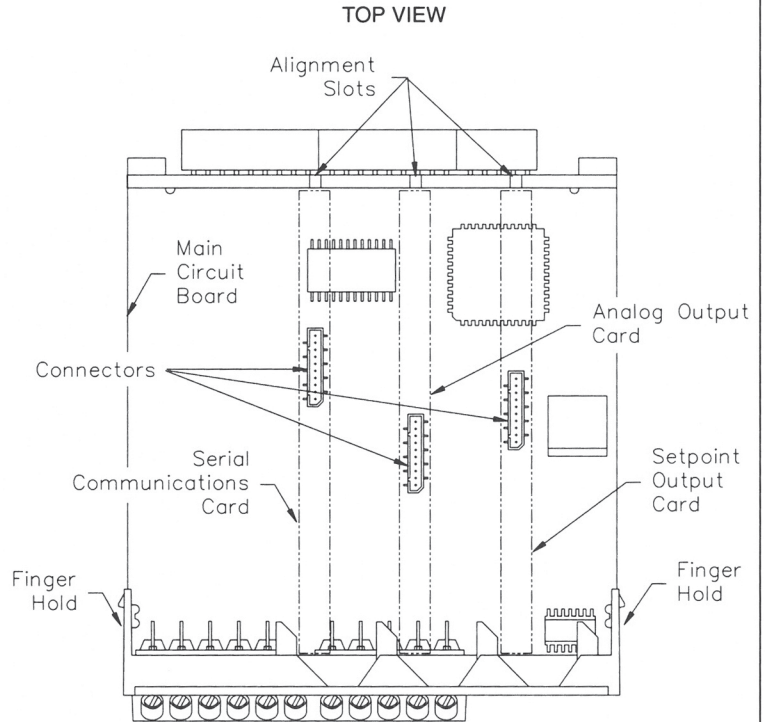


**Caution:** The option and main circuit cards contain static sensitive components. Before handling the cards, discharge static charges from your body by touching a grounded bare metal object. Ideally, handle the cards at a static controlled clean workstation. Also, only handle the cards by the edges.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



### 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. Not isolated from all other commons.

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

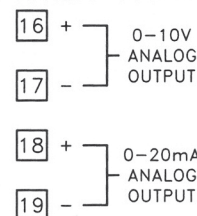
**Resolution:** 1/3500

#### Compliance:

10 VDC: 10 KΩ load min.

20 mA: 500 Ω load max.

#### ANALOG OUTPUT FIELD TERMINALS



#### Corporate Headquarters

1010 West Bagley Road  
Berea, Ohio 44017  
Ph: 440.243.0888  
Fax: 440.243.3472  
E-mail: noshok@noshok.com  
Web: www.noshok.com

