

## 2000/2100 SERIES



- Accepts a variety of standard process signals and precisely scales them into any desired unit of measurement
- Single input or dual input
- Employs advanced technology for stable, drift-free readout
- Field upgradeable with plug-in option cards; including 4 set point alarms, analog output and serial communication
- 24 Vdc transmitter power supply
- 16 point scaling for non-linear processes
- Max. and min. value display
- Easy menu-driven programming
- NEMA 4X/IP65 sealed front bezel
- Optional PC software available for configuration
- AC or DC input power
- Signal totalizer for batch weighing or other timed input processes
- Programmable signal response time
- Standard DIN panel cutout
- CE compliant to suppress RFI, EMI, and ESD

### APPLICATIONS

- Process indication
- On/off pump controls
- Compressor controls
- Safety or shutdown alarms
- Local indication with signal
- Retransmission to computer control system

### SPECIFICATIONS

<b>Input signals</b>	Current, voltage or resistance
<b>Process display</b>	5 digit, 0.56" red LED, (-19999 to 99999)
<b>Keypad</b>	3 programmable function keys, 5 keys total
<b>Power requirement</b>	115/230 Vac or 11 Vdc to 36 Vdc (18 Vdc to 36 Vdc for 2100 Series)
<b>Internal power supply</b>	24 Vdc (18 Vdc for 2100 Series), unregulated
<b>Electrical connection</b>	Terminal blocks in rear
<b>Memory</b>	Non-volatile Eprom, will hold set up data for 10 years without power
<b>Accuracy</b>	±0.03% of reading +3 µA for 4 mA to 20 mA input; ±0.03% of reading +3 mV for 0 Vdc to 5 Vdc and 0 Vdc to 10 Vdc inputs over the range of 18°C to 28°C
<b>Update rate</b>	Up to 20 times per second, adjustable (Up to 105 time per second, adjustable for 2100 Series)
<b>Temperature ranges</b>	Operating 32 °F to 122 °F (0 °C to 50 °C) Storage -40 °F to 140 °F (-40 °C to 60 °C)
<b>Electromagnetic rating</b>	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
<b>Environmental protection</b>	NEMA 4X/IP65 sealed bezel only
<b>Linearization</b>	6 point scaling of non linear input
<b>Dual relay option card</b>	Two FORM-C relays. Rating: One relay energized; 5 amps @ 120/240 Vac/115/230 Vac or 28 Vdc (resistive load), 1/8 HP @ 120 Vac, inductive load. Total current not to exceed 5 amps with both relays energized
<b>Quad relay option card</b>	Four FORM-A relays. Rating: One relay energized; 3 amps @ 240 Vac or 30 Vdc (resistive load), 1/10 HP @ 120 Vac, inductive load. Total current not to exceed 4 amps with all four relays energized
<b>Analog output option card</b>	0 mA to 20 mA, 4 mA to 20 mA or 0 Vdc to 10 Vdc retransmitted signal
<b>Quad NPN-OC option card</b>	4 isolated open collector sinking transistors, 100 mA at maximum 30 Vdc
<b>Quad PNP-OC option card</b>	4 isolated open collector sourcing transistors, 24 Vdc with 30 mA total maximum
<b>Communication option cards</b>	RS232C or RS485

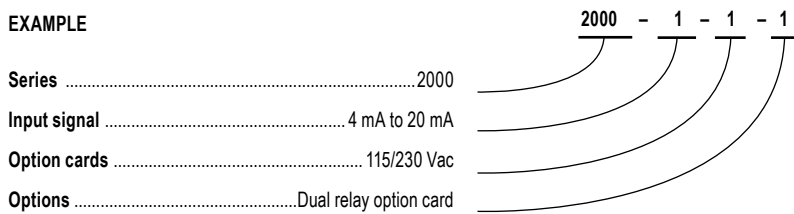
# 2000/2100 SERIES

ORDERING INFORMATION  
WIRING DIAGRAMS  
ELECTRICAL  
CONNECTIONS  
DIMENSIONS

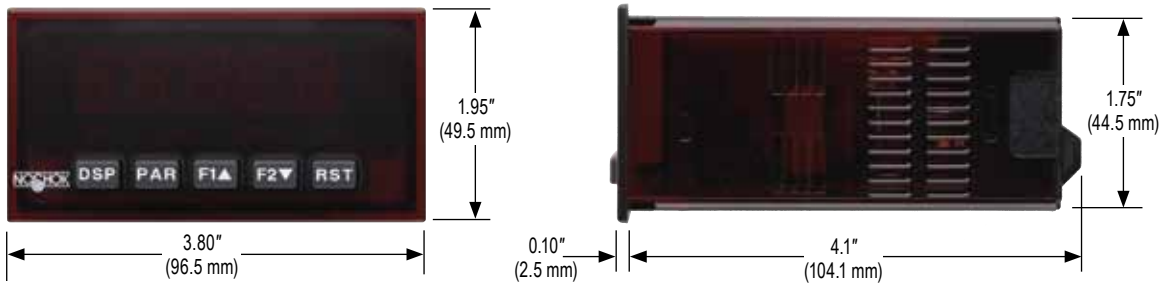
ORDERING INFORMATION					
SERIES	2000 (Single input)		2100 (Dual input)		
INPUT SIGNALS	1 4 mA to 20 mA	2 0 Vdc to 5 Vdc	4 1 Vdc to 6 Vdc	5 0 Vdc to 10 Vdc	6 1 Vdc to 11 Vdc
POWER REQUIREMENTS	1 115/230 Vac	3 11 Vdc to 36 Vdc			
OPTION CARDS	0 No option card	3 Quad NPN-OC option card		6 RS 232-C Serial communications option card	
	1 Dual relay option card	4 Quad PNP-OC option card		7 RS 485 Serial communications option card	
	2 Quad relay option card	5 Analog output option card			

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

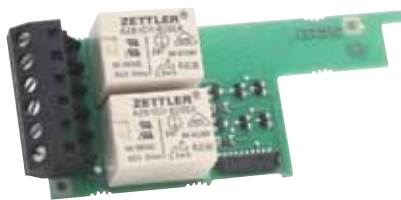
**EXAMPLE**



**OPTIONAL ACCESSORIES**  
RS232C Mating connector  
RS485 Mating connector  
2000-50000 NEMA 4 enclosure



Typical plug-in option card with on board terminals



NEMA 4 Enclosure



Available options are plug-in cards that provide alarm and setpoint relay outputs, analog and digital outputs, including RS 232-C and RS 485 functions.