

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 upgradable with plug-in option cards; including 4 set point alarms, analog output and serial communication
- 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

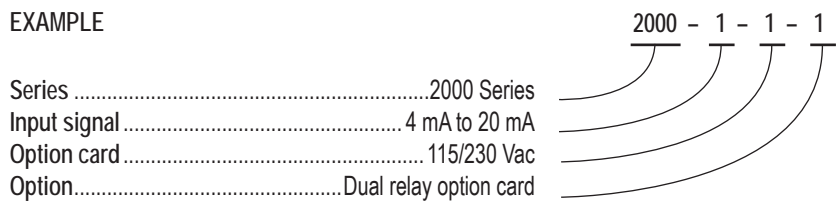
Input signals	4 mA to 20 mA, 0 Vdc to 10 Vdc (optional RTD and Thermocouple)	
Sensor excitation	Built-in 24 Vdc	
Process display	5 digit, 0.56" Red LED	
Key pad	3 programmable function keys, 5 total	
Power requirement	AC version	85 Vac to 250 Vac, 50/60 Hz, 15 VA
	DC version	11 Vdc to 36 Vdc, 11 W
Electrical connection	Screw terminals at back of case	
Memory	EEPROM	
Accuracy	<0.03% of full scale	64 °F to 82 °F (18 °C to 50 °C)
	<0.12% of full scale	32 °F to 122 °F (0 °C to 50 °C)
Humidity	<85%, non-condensing	
Vibration	5-150 Hz, 2 g	
Shock	25 g	
Normal rejection mode	60 dB 50/60 Hz	
Altitude	Up to 2,000 meters	
Update rate	200 msec	
Temperature ranges	Operating	32 °F to 122 °F (0 °C to 50 °C)
	Effect	≤ 0.1% of full scale/18 °F (10 °C)
	Storage	-40 °F to 140 °F (-40 °C to 60 °C)
Electromagnetic rating	CE compliant to EMC norm EN 61326-1 RFI, EMI and ESD protection	
Environmental rating	NEMA 4X, IP65 (front of display only)	
Filtering	0 seconds to 25 second, selectable	
Min/Max reading	Captures and stores min/max measurement	
User inputs	3 programmable, 30 Vdc max. continuous	
Totalizer	Time base	Second, minute, hour or day
	Batch	Can accumulate from user input
Linearization	2 to 16 points, selectable	
Weight	10.4 oz.	
Option cards	Serial communication (RS232 or RS485) DeviceNet communication MODBUS communication (RS485 RTU and ASCII MODBUS) Profibus communication Analog output (0-20 mA, 4-20 mA or 0-10 Vdc) Dual or Quad Relay (NPN or PNP type) USB programming	

Note: See page 14-15 for more information on enclosures and option cards.

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			
OPTIONAL ENCLOSURES	ENC1 Black painted steel				

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

