Smart System "Intelligent"

CE

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

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

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	

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

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Series ....2000 Series
Input signal .... 4 mA to 20 mA
Option card .... 115/230 Vac
Option..Dual relay option card
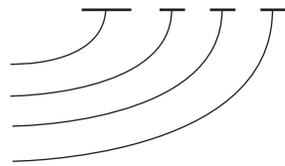
OPTIONAL ACCESSORIES
RS232C Mating connector
RS485 Mating connector
2000-50000 NEMA 4 enclosure

1.95 ″ (49.5 mm)

3.80 ″ (96.5 mm)

1.75 ″ (44.5 mm)

0.10 ″ (2.5 mm)

4.1 ″ (104.1 mm)