

# 1950 SERIES



## APPLICATIONS

Suitable for a wide variety of applications requiring pressure, flow, level, force and temperature measurement, including:

- Process indication
- On/off pump controls
- Compressor controls
- Safety or shutdown alarms

- Offers all the features of a full size panel meter in a compact digital display for pressure, flow, level, force, and temperature measurement
- 5 digit, 0.48" LCD display with a span range of -9999 to 99999
- Reflective LCD display; or green backlighting optional
- Display is fully expandable to accommodate applications requiring relays, dual sinking outputs, and serial communications by RS232 or RS485
- Fully scalable & field upgradable
- Simple programming through front panel
- Compact, lightweight, impact-resistant NEMA 4X, IP65 housing with sealed front bezel
- CE compliant to suppress RFI, EMI, and ESD
- Relay, communications and dual sinking output option cards available

## SPECIFICATIONS

Input signals	4 mA to 20 mA, 0 Vdc to 10 Vdc (optional RTD and Thermocouple)	
Process display	5 digit, 0.48" liquid crystal display	
Key pad	2 programmable function keys	
Power requirement	9 Vdc to 28 Vdc	
Electrical connection	Screw terminals at back of case	
Memory	EEPROM	
Accuracy	<0.1% of full scale	
Humidity	<85%, non-condensing	
Vibration	5-500 Hz, 5g	
Shock	30 g	
Normal rejection mode	60 dB 50/60 Hz	
Altitude	Up to 2,000 meters	
Update rate	500 msec	
Temperature ranges	Operating	-31 °F to 167 °F (-35 °C to 75 °C)
	Effect	≤ 0.1% of full scale /18 °F (10 °C)
	Storage	-31 °F to 185 °F (-35 °C to 85 °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	0.25 seconds to 1 second, selectable	
Min/Max reading	Captures and stores min/max measurement	
User inputs	1 programmable, 28 Vdc max. continuous	
Linearization	2 point	
Weight	3 oz.	
Option cards	Serial communication (RS232 or RS485) Analog output (0-20 mA, 4-20 mA or 0-10 Vdc) Single or Dual Relay (NPN or PNP type) USB programming	

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

ORDERING INFORMATION			
SERIES	1950		
INPUT SIGNALS	C Current	V Voltage	R Resistance
DISPLAYS	1 Reflective	2 Backlight	
OPTION CARDS	0 None	2 Dual sinking open collector	7 RS485 comm
	1 Single relay	6 RS232 comm	
OPTIONAL POWER SUPPLIES	PS1 115 Vac to 12 Vdc (400 mA)	PS2 115 Vac to 24 Vdc (200 mA)	PS3 85 - 250 Vac to 12 Vdc (400 mA)
OPTIONAL ENCLOSURES	ENC1 Black painted steel	ENC2 Off-white fiberglass	

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

### EXAMPLE

Series .....1950 Series  
 Input signal ..... Current  
 Display ..... Reflective  
 Option card ..... Single relay  
 Option ..... Black painted steel enclosure

1950C - 1 - 1 - ENC1

