

## 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

<b>Input signals</b>	4 mA to 20 mA, 0 Vdc to 10 Vdc (optional RTD and Thermocouple)	
<b>Process display</b>	5 digit, 0.48" liquid crystal display	
<b>Key pad</b>	2 programmable function keys	
<b>Power requirement</b>	9 Vdc to 28 Vdc Power consumption 10 mA typical, 95 mA with max. display intensity	
<b>Electrical connection</b>	Screw terminals at back of case	
<b>Memory</b>	EEPROM	
<b>Accuracy</b>	<0.1% of full scale	
<b>Humidity</b>	<85%, non-condensing	
<b>Vibration</b>	5-500 Hz, 5g	
<b>Shock</b>	30 g	
<b>Normal rejection mode</b>	60 dB 50/60 Hz	
<b>Altitude</b>	Up to 2,000 meters	
<b>Update rate</b>	500 msec	
<b>Temperature ranges</b>	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)
<b>Electromagnetic rating</b>	CE compliant to EMC norm EN 61326-1 RFI, EMI and ESD protection	
<b>Environmental rating</b>	NEMA 4X, IP65 (front of display only)	
<b>Filtering</b>	0.25 seconds to 1 second, selectable	
<b>Min/Max reading</b>	Captures and stores min/max measurement	
<b>User inputs</b>	1 programmable, 28 Vdc max. continuous	
<b>Linearization</b>	2 point	
<b>Weight</b>	3 oz.	
<b>Option cards</b>	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 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

