

1900 SERIES



- Provides compact digital display of any desired unit of pressure, temperature, level, force, or flow measurement
- Dual range 4 mA to 20 mA or 10 mA to 50 mA
- 3-1/2 digit, 0.6" high display with a span range of 0 to 1999
- Positive image reflective LCD is standard; red or yellow/green back-lit versions optional
- Span and zero offset capabilities
- Negative pressure and overpressure indication
- Selectable decimal point position
- Compact, lightweight, impact-resistant NEMA 4X, IP65 housing with sealed front bezel
- Fits DIN standard cut-out 2.68" (68 mm) x 1.30" (33 mm)
- CE compliant to suppress RFI, EMI, and ESD

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

SPECIFICATIONS

Input signals	4 mA to 20 mA	
Process display	3½ digit, 0.6" liquid crystal display (-1999 to 1999)	
Power requirement	1900C-1/1900C-2	Loop powered by sensors excitation
	Power consumption	160 Ω max. @ 20 mA 65 Ω max. @ 50 mA
	Voltage drop	3.2 Vdc
	1900C-3/1900C-4	Main display loop powered by sensors excitation w/ PS3 power supply for back light (85-250 VAC required)
	Power consumption	160 Ω max. @ 20 mA 65 Ω max. @ 50 mA
	Voltage drop	4 Vdc
Electrical connection	Screw terminals at back of case	
Memory	EEPROM	
Accuracy	±(0.1% + 1 digit)	
Humidity	85% max., 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	400 msec	
Temperature ranges	Operating	32 °F to 140 °F (0 °C to 60 °C)
	Effect	100 ppm/°C
	Storage	-40 °F to 176 °F (-40 °C to 80 °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)	
Linearization	2 point	
Weight	3.3 oz.	

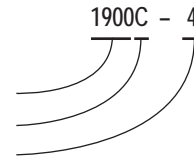
Note: See page 14-15 for more information on backlights & displays, power supplies, and option cards. See page 16 for 1900C wiring diagram, including the backlight feature.

ORDERING INFORMATION		
SERIES	1900	
INPUT SIGNALS	C Current	
INDICATIONS	1 Positive image reflective LCD	3 Yellow/green backlight transfective LCD with backlight power supply
	2 Positive image reflective LCD backlight	4 Red backlight transfective LCD with backlight power supply

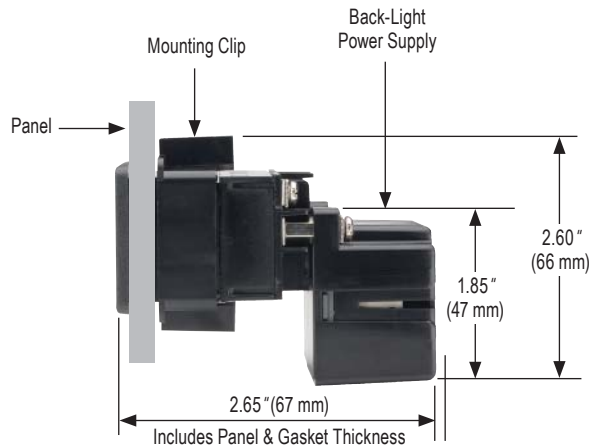
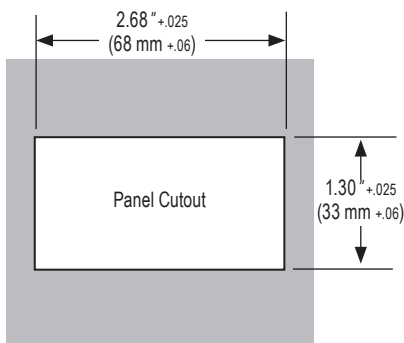
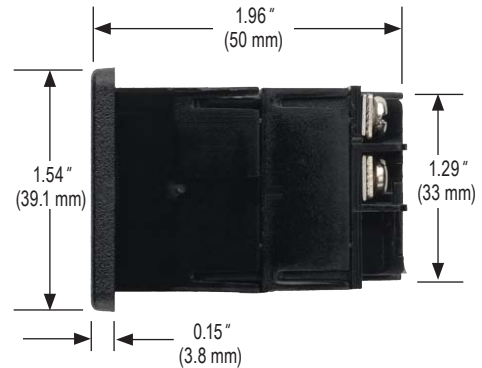
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

EXAMPLE

Series1900 Series
 Input signalCurrent
 OptionRed backlight LCD



OPTIONAL POWER SUPPLIES		
MODEL	INPUT	OUTPUT
PS1	115 Vac	12 Vdc
PS2	115 Vac	24 Vdc



1900C-3/1900C-4: Loop Powered Display with backlight power supply