

# Attachable Loop-Powered Digital Indicators



## 1800 SERIES



Unit with relay option shown.

### APPLICATIONS

- Hydraulic and pneumatic systems
- Pumps and compressors
- Test equipment and systems
- Industrial machinery and machine tools
- HVAC systems
- Power generation
- Water and wastewater
- Stamping and forming presses

- High accuracy 4 mA to 20 mA loop-powered indicators for NOSHOK 300, 600, 615, 616 and 800 Series transmitters
- Can be fitted to NOSHOK pressure transmitters utilizing a 4 mA to 20 mA output signal and the Hirschmann (DIN 43650A) connector
- Easily inserted between the transmitter body and the connector
- Programmable to display a range of -1999 to 9999; may be tilted for better viewing
- User selectable digital filtering improves readability in rapidly varying pressure applications
- All parameters are stored in non-volatile memory so that reprogramming is not necessary in the event of a power failure

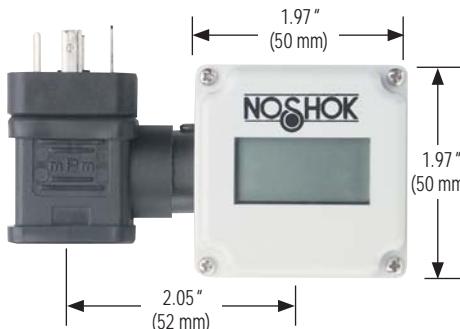
### SPECIFICATIONS

Display	0.4" Liquid Crystal Display	
Digits	4, from -1999 to 9999	
Accuracy	$\pm 0.2\%$ full scale, $\pm 1$ digit	
Update rate	5 times/second	
Filtering	Digital, field selectable .2, .5, 1 or 1.5 seconds, display only	
Range	The 4 mA to 20 mA signal from the transmitter can be assigned any display value within the display range. Both scaling points are individually adjustable using the push buttons inside the case	
Power supply	Loop-powered - no additional power supply required. Maximum current rating is 40 mA and voltage drop of 3 Vdc, unregulated	
Temperature ranges	Ambient	32 °F to 122 °F (0 °C to 50 °C)
	Effect	$\pm 0.006\%$ full scale/°F
	Storage	-22 °F to 176 °F (-30 °C to 80 °C)
Electrical connection	Requires NOSHOK transmitter with 4 mA to 20 mA (2-wire) output and Hirschmann (DIN 43650A) connector	
Environmental protection	IP65, NEMA 4X according to EN 60529/IEC 529	
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection	
Case material	ABS plastic with polycarbonate window	
Weight	Approximately 3 oz.	
Relay option	Type: n-switching	

ORDERING INFORMATION		
SERIES	1800	
OPTIONS	0 No options	1 With relay

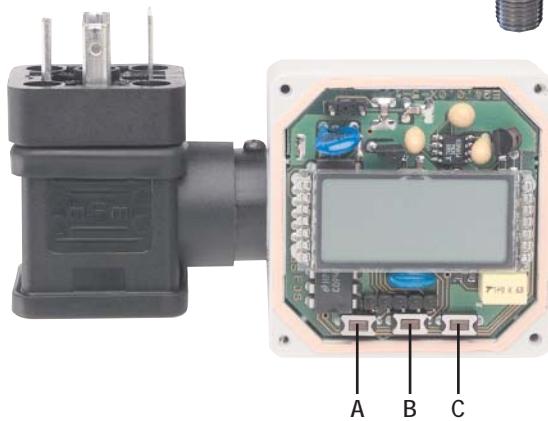
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

Note: Indicate display range on order eg. 0-1,000 for 4 mA to 20 mA





To install, remove the DIN 43650A plug and insert indicator on top of transducer and reinstall the plug. This indicator can be used with NOSHOK and some competitive transmitters with 2-wire 4 mA to 20 mA output, Hirschmann connector with the same pin configuration.  
(Pin 1 + supply, pin 2 + output)



To program, first remove the cover from the indicator housing and identify the buttons A, B, and C. These buttons are used to program the indicator to match the pressure range of the transmitter.

A → down  
B → program steps  
C → up

1. → Set the decimal point  
1 X B: 

d	P		
---	---	--	--

  
→ C/A up or down
2. Set the lower end of the range  
2 x B: 

A	n	4	
---	---	---	--

  
→ C/A up or down
3. Set the upper end of the range  
3 x B: 

A	n	2	0
---	---	---	---

  
C/A up or down

4. To enable error codes  
3 X B: 

L	1		
---	---	--	--

  
1 x C: 

			1
--	--	--	---

 on  
1 x A: 

			0
--	--	--	---

 off  
→ C/A up or down

Errors are shown as F1 for an underrange condition, and F2 for an overrange condition

5. Set digital filtering range  
5 X B: 

F	I	L	T
---	---	---	---

  
1 x C: 

			0
--	--	--	---

 0.2 seconds  
2 x C: 

			1
--	--	--	---

 0.5 seconds  
3 x C: 

			2
--	--	--	---

 1.0 seconds  
→ 4 x C: 

			3
--	--	--	---

 1.5 seconds  
C/A up or down
6. Return to measurement mode  
2 x A