Compact

300 SERIES

- Ranges from 0 psig to 15 through 0 psig to 10,000 psig; absolute ranges from 0 psia to 15 psia through 0 psia to 300 psia
- Current and voltage outputs available
- 316 and 13-8PH Stainless Steel wetted parts
- RoHS compliant
- CE compliant to suppress RFI, EMI and ESD

APPLICATIONS

- HVAC
- Hydraulics & pneumatics
- Injection molding machines
- Railroad equipment
- Stamping & forming presses

SPECIFICATIONS

Output signals	4 mA to 20 mA, 2-wire; 0 Vdc to 5 Vdc, 3-wire; 1 Vdc to 5 Vdc, 3-wire; 0 Vdc to 10 Vdc, 3-wire; 0.5 Vdc to 4.5 Vdc ratiometric, 3-wire
Pressure ranges	0 psig to 15 psig through 0 psig to 10,000 psig Absolute from 0 psia to 15 psia through 0 psia to 300 psia
Accuracy	±0.5% full scale (BFSL), (includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Stability	≤ ±0.2% full scale per year, non-accumulating
Response time	≤ 4 ms (between 10% and 90% full scale)
Service life	> 100,000,000 load cycles
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Media 32 °F to 176 °F (0 °C to 80 °C) Ambient 32 °F to 176 °F (0 °C to 80 °C) Storage -4 °F to 176 °F (0 °C to 80 °C)
Power requirement*	8 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire, 0 Vdc to 5 Vdc, 3-wire, 1 Vdc to 5 Vdc, 3-wire, 0.5 Vdc to 4.5 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) 5 Vdc ± 10% (0.5 Vdc to 4.5 Vdc ratiometric, 3-wire)
Load limitations	≤ (VPower−10)/0.020 Amp for 4 mA to 20 mA output ≤ 5,000 Ω for 1 Vdc to 5 Vdc output ≤ 10,000 Ω for 0 Vdc to 10 Vdc output ≤ 4,500 Ω for 0.5 Vdc to 4.5 Vdc output
Proof pressure	2 times full scale
Burst pressure	6 times full scale
Measuring element	316 Stainless Steel for absolute through 150 psi 13-8PH Stainless Steel for ≥150 psi
Connection	316 Stainless Steel
Housing material	316 Stainless Steel
Environmental rating	IP65 to IP67 depending on electrical connection
Electromagnetic rating	CE compliant to EMC norm EN 61326:2014/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Shock	500 g's according to IEC 60068-2-27
Vibration	10 g's according to IEC 60068-2-6
Weight	Approximately 2.8 oz.

* Unregulated

WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ORDERING INFORMATION

SERIES	**300**								
PRESSURE RANGES	30inH_2O-vac	-30 inH_2O to 0 psig	**1**	0 psig to 1 psig	**500**	0 psig to 500 psig	**10000**	0 psig to 10,000 psig	
	30vac	-30 inHg to 0 psig	**5**	0 psig to 5 psig	**750**	0 psig to 750 psig	**15A**	0 psia to 15 psia	
	30/15	30 inHg to 15 psig	**15**	0 psig to 15 psig	**1000**	0 psig to 1,000 psig	**30A**	0 psia to 30 psia	
	30/30	30 inHg to 30 psig	**30**	0 psig to 30 psig	**1500**	0 psig to 1,500 psig	**60A**	0 psia to 60 psia	
	30/60	30 inHg to 60 psig	**60**	0 psig to 60 psig	**2000**	0 psig to 2,000 psig	**100A**	0 psia to 100 psia	
	30/100	30 inHg to 100 psig	**100**	0 psig to 100 psig	**3000**	0 psig to 3,000 psig	**150A**	0 psia to 150 psia	
	30/160	30 inHg to 160 psig	**150**	0 psig to 150 psig	**5000**	0 psig to 5,000 psig	**200A**	0 psia to 200 psia	
	30/200	30 inHg to 200 psig	**200**	0 psig to 200 psig	**6000**	0 psig to 6,000 psig	**300A**	0 psia to 300 psia	
	30/300	30 inHg to 300 psig	**300**	0 psig to 300 psig	**7500**	0 psig to 7,500 psig			
	psig = gauge pressure	psia = absolute pressure	Other ranges available upon request.						
ACCURACIES	**1**	±0.5% full scale (BFSL)							
OUTPUT SIGNALS	**1**	4 mA to 20 mA, 2-wire	**5**	0 Vdc to 10 Vdc, 3-wire					
	2	0 Vdc to 5 Vdc, 3-wire	**13**	0.5 Vdc to 4.5 Vdc, 3-wire (ratiometric)					
PROCESS CONNECTIONS	**2**	1/4" NPT male	**10**	G 1/4 B	**45**	7/16-20 SAE J514 FIG 34B (Non-Adjustable)			
	8	1/2" NPT male	**11**	G 1/2 B					
ELECTRICAL CONNECTIONS	**1**	DIN EN 175301-803 Form A w/ 36" Cable			**8**	DIN EN 175301-803 Form A	**25**	M12 x 1 (4-pin)	
	7	DIN EN 175301-803 Form C			**14**	DIN EN 175301-803 Form A with 1/2" NPT female conduit	**36**	6' Integral cable	
OPTION	**ST8**	Threaded Orifice (0.8 mm)							

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

EXAMPLE **300 – 500 – 1 – 1 – 2 – 8 – ST8**

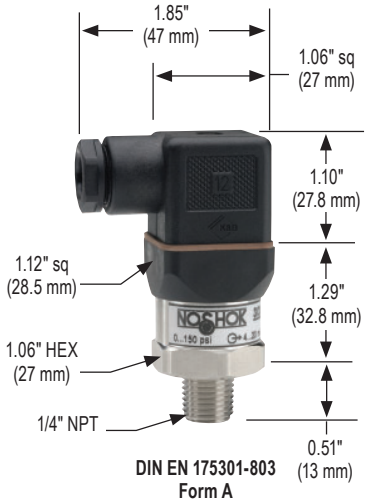
Series ..... 300 Series
Pressure range ..... 0 psig to 500 psig
Accuracy ..... ±0.50% full scale (BFSL)
Output signal ..... 4 mA to 20 mA, 2-wire
Process connection ..... 1/4" NPT Male
Electrical connection ..... DIN EN 175301-803 Form A
Option ..... Threaded Orifice

Integral cable

DIN EN 175301-803 Form C

***M12 x 1 (4-pin)**

* Note: (mate supplied separately)



DIN EN 175301-803 Form A

300 Series Wiring	4 mA to 20 mA	
CONNECTION TYPE (CODE)	V+	V-
DIN EN 175301-803 Form A (8 or 14), DIN EN 175301-803 Form C (7)	1	2
DIN EN 175301-803 Form A w/ Cable (1)	Red	Black
M12 x 1, 4-Pin (25)	1	3
Integral Cable , Unshielded (36)	Brown	Blue

300 Series Wiring	0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0-10 Vdc, 1-11 Vdc		
CONNECTION TYPE (CODE)	V+	COMMON	OUTPUT
DIN EN 175301-803 Form A (8 or 14), DIN EN 175301-803 Form C (7)	1	2	3
DIN EN 175301-803 Form A w/ Cable (1)	Red	Black	White
M12 x 1, 4-Pin (25)	1	3	4
Integral Cable, Unshielded (36)	Brown	Blue	Black

Load Limitations 4 mA to 20 mA output		
Vmin	=	10V + (.020 x RL)
RL	=	Loop resistance (Ω) RL = RS + RW
RS	=	Sensor resistance (Ω)
RW		Wire resistance (Ω)