High Accuracy Heavy-Duty





High pressure model

APPLICATIONS

- Construction
- Hydraulics & pneumatics
- Laboratory & test equipment
- Power generation
- Stamping & forming presses
- Transportation

Also available with our 1800 Series Attachable Loop Indicator. Visit www.noshok.com for more information.

615/616 SERIES

- Vacuum ranges through 0 psig to 145,000 psig; absolute ranges from 0 psia to 15 psia through 0 psia to 300 psia
- · Current and voltage outputs available
- 316 and 17-4PH Stainless Steel wetted parts
- · CE compliant to suppress RFI, EMI and ESD

	SPECIFICATIONS								
Output signals	4 mA to 20 mA, 2-wire; 0 Vdc to 5 Vdc, 0 Vdc to 10 Vdc, 1 Vdc to 5 Vdc,3-wire								
Pressure ranges	Vacuum through 0 psig to 145,000 psig Absolute from 0 psia to 15 psia through 0 psia to 300 psia								
Accuracy	$\pm0.25\%$ full scale (BFSL); optional $\pm0.125\%$ full scale (BFSL); (includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)								
Stability	≤ ±0.2% full scale for 1 year, non-accumulating								
Adjustment	± 10% full scale for zero and span								
Response time	Less than 1 ms (between 10% and 90% full scale)								
Service life	>100,000,000 load cycles								
Temperature ranges	Compensated 32 °F to 175 °F (0 °C to 80 °C) Effect ± 0.01%/ °F for zero and span Media -20 °F to 212 °F (-30 °C to 100 °C) Ambient -15 °F to 175 °F (-10 °C to 80 °C) Storage -40 °F to 212 °F (-40 °C to 100 °C)								
Power requirement*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire, 1 Vdc to 5 Vdc, 3-wire, 1 Vdc to 6 Vdc, 3-wire, 0 Vdc to 5 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire, 1 Vdc to 11 Vdc, 3-wire)								
Load limitations	≤ (VPower-10)/0.020 Amp for 4 mA to 20 mA ≥ 10,000 Ω for 0 Vdc to 10 Vdc, 3-wire ≥ 5,000 Ω for 0 Vdc to 5 Vdc, 3-wire								
Proof pressure	3 times full scale for ranges 0 psi to 2 psi through 0 psi to 200 psi 1.75 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi 1.5 times full scale for 0 psi to 15,000 psi 1.2 times full scale for ranges 0 psi to 20,000 psi through 0 psi to 145,000 psi								
Burst pressure	3.8 times full scale for ranges 0 psi to 2 psi through 0 psi to 200 psi 4 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi 3 times full scale for 0 psi to 15,000 psi 1.5 times full scale for ranges 0 psi to 20,000 psi through 0 psi to 145,000 psi								
Measuring element	316 Stainless Steel for vacuum through 300 psi; 17-4PH Stainless Steel for ≥500 psi								
Connection	316 Stainless Steel								
Housing material	316 Stainless Steel								
Environmental rating	IP65								
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection								
Electrical protection	Reverse polarity, overvoltage and short circuit protection								
Shock	1,000 g's according to IEC 60068-2-27								
Vibration	15 g's according to IEC 60068-2-6								
Weight	Approximately 7.2 oz.								

^{*} Unregulated



ORDERING INFORMATION														
SERIES		615	(Internal diaphragm)			616	(Front flush diaphra	agm)						
PRESSURE		30vac	-30 inHg to 0 psig	2	0 psig to 2 psig	150	0 psig to 150 psig	2000	0 psig to 2,000 psig	20000	0 psig to 20,000 psig *	145000	0 psig to 145,000 psig	
RANGES		30/15	-30 inHg to 15 psig	3	0 psig to 3 psig	200	0 psig to 200 psig	3000	0 psig to 3,000 psig	30000	0 psig to 30,000 psig	15A	0 psia to 15 psia	
		30/30	-30 inHg to 30 psig	5	0 psig to 5 psig	300	0 psig to 300 psig	4000	0 psig to 4,000 psig	36000	0 psig to 36,000 psig	30A	0 psia to 30 psia	
		30/60	-30 inHg to 60 psig	10	0 psig to 10 psig	500	0 psig to 500 psig	5000	0 psig to 5,000 psig	58000	0 psig to 58,000 psig	60A	0 psia to 60 psia	
		30/100	-30 inHg to 100 psig	15	0 psig to 15 psig	600	0 psig to 600 psig	6000	0 psig to 6,000 psig	72000	0 psig to 72,000 psig	100A	0 psia to 100 psia	
		30/150	-30 inHg to 150 psig	30	0 psig to 30 psig	750	0 psig to 750 psig	7500	0 psig to 7,500 psig	87000	0 psig to 87,000 psig	150A	0 psia to 150 psia	
		30/200	-30 inHg to 200 psig	60	0 psig to 60 psig	1000	0 psig to 1,000 psig	10000	0 psig to 10,000 psig	100000	0 psig to 100,000 psig	200A	0 psia to 200 psia	
		30/300	-30 inHg to 300 psig	100	0 psig to 100 psig	1500	0 psig to 1,500 psig	15000	0 psig to 15,000 psig	115000	0 psig to 115,000 psig	300A	0 psia to 300 psia	
			psig = gauge pressure	p:	sia = absolute press	sure	Other ranges availal	ble on re	quest Note: 616 Se	eries is ava	ilable for pressure ranges	up to 0 psig	g to 8,000 psig	
ACCURACIES 1 ±0.25% full scale (BFSL)					2	±0.125% full scale	0.125% full scale (BFSL)							
OUTPUT SIGNALS		1	4 mA to 20 mA, 2-wire	Э		3	1 Vdc to 5 Vdc, 3-w	vire	NOTE: 0 Vdc to 5 Vd	lc and 0 V	dc to 10 Vdc outputs are	also avai	lable in 4-wire	
		2	0 Vdc to 5 Vdc, 3-wire			5	configurations of the state of			for use with other electrical systems.				

PROCESS CONNECTIONS	615:	2	1/4" NPT male			6		16"-18 UNF 2B high pressure cone ** 8 1/2" NPT male						
CONNECTIONS							(Standard on 30,00		. 0,					
	616:		G 1/2 B (Pressure ranges ≥ 0 psig to 30 psig)				G 1 B (Pressure ranges ≤ 0 psig to 30 psig)				Other connections available upon request			
ELECTRICAL CONNECTIONS		1	36" cable (connected to option 8)			8	Hirschmann (DIN E	Hirschmann (DIN EN 175301-803 Form A) 25 M12 x 1 (4-pin)			M12 x 1 (4-pin)			
		3	6-pin Bendix			14	Hirschmann type with 1/2" NPT female conduit 36 Int			Integral 36" cable				
		6	1/2" NPT conduit w/ 3	6" ca	ble									
OPTIONS	IS ST8 SS Threaded Orifice			G1	G 1 Weld-on adapt	er (616 c	nly)	G1/2	G 1/2 Weld-on adapte	r (616 only	y)			

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

2

Black

3

В

+ Output

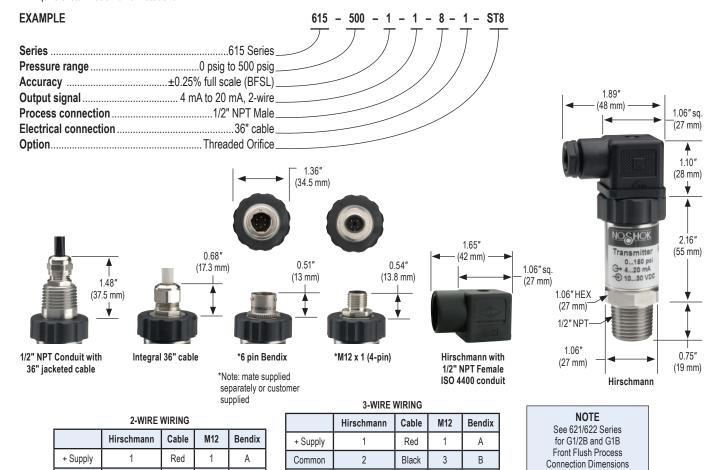
3

White

4

С

+ Output



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^{*} Not available with 1/4" NPT ** Equivalent to F250C Parker Autoclave