



755 SERIES

- Combines the reliability of diffused semiconductor and sputtered thin film sensors with digital electronics for outstanding performance and value
- Accuracy up to $\pm 0.05\%$ full scale (BFSL)
- Up to 20:1 span turn down and -2.5% to 99% zero point adjustment for maximum flexibility
- Built-in process temperature display and selectable process digital filtering
- Welded 316 stainless steel pressure chamber
- 32 point process linearization
- Adjustable display for easy viewing
- 12 different measurement units
- User programming includes menus to allow the setting of user language, engineering units, zero and span calibration points and digital filtering to dampen pressure fluctuations
- Stainless steel wetted parts are welded with no internal o-rings, gaskets or seals
- CE compliant to suppress RFI, EMI and ESD

SPECIFICATIONS

Output	4 mA to 20 mA, 2 wire
Accuracy	$\pm 0.05\%$ full scale (BFSL); $\pm 0.15\%$ full scale for 0 psig to 15,000 psig range; (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Total accuracy	$\pm 0.05\%$ full scale (BFSL) including the effects of linearity, hysteresis, repeatability and thermal effects from 50 °F to 104 °F; $\pm 0.15\%$ full scale for 0 psig to 15,000 psig
Hysteresis	$\leq \pm 0.04\%$ full scale
Repeatability	$\leq \pm 0.05\%$ full scale
Stability	$\leq \pm 0.1\%$ full scale for 1 year non-accumulating
Pressure ranges	Standard ranges from vacuum through 15,000 psig
Proof pressure	5 times full scale for ranges 0 psi to 5 psi through 0 psi to 250 psi 2 times full scale for ranges 0 psi to 500 psi through 0 psi to 7,500 psi 1.5 times full scale for 0 psi to 15,000 psi range *Proof pressure is based on full scale range prior to turndown
Burst pressure	6 times full scale for ranges 0 psi to 5 psi through 0 psi to 250 psi 4 times full scale for ranges 0 psi to 500 psi through 0 psi to 7,500 psi 3 times full scale for 0 psi to 15,000 psi range *Burst pressure is based on full scale range prior to turndown
Power supply*	12 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire)
Load limitations	$\leq (V_{Power} - 10)/0.020$ Amp
Zero adjustability	From -2.5% full scale up to 99% full scale
Span adjustability	20:1 turndown for ranges up through 0 psig to 15,000 psig
Turn down effect on accuracy	Turn down up to 5:1, no effect on accuracy; turndown greater than 5:1, accuracy x turndown/5
Response time	<10 milliseconds (between 10% and 90% full scale)
Durability	>100,000,000 full scale cycles
Digital filtering	User selectable from 0 sec. to 40 sec. for display and output signal
Temperature ranges	Compensated -4 °F to 176 °F (-20 °C to 80 °C); Zero effect is $\pm 0.01\%$ full scale/ °F Span effect is $\pm 0.01\%$ full scale/ °F; Ambient -4 °F to 158 °F (-20 °C to 70 °C) Media -22 °F to 221 °F (-30 °C to 105 °C); Storage -31 °F to 176 °F (-35 °C to 80 °C)
Wetted materials	316 stainless steel (ranges up through 0 psig to 250 psig) 316 stainless steel with 17-4PH stainless steel diaphragm (ranges 0 psig to 500 psig and higher)
Housing material	Fiberglass reinforced PBT (polybutene terephthalate)
Environmental rating	IP65, NEMA 4X according to EN 60529/IEC529
Electromagnetic rating	2004/108/EEC, EN 61326 Emission (Group 1, Class B) and Immunity (industrial locations)
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Shock	100 g's according to IEC770 for mechanical shock
Vibration	5 g's according to IEC770 under resonance conditions
Weight	Approximately 24 oz.

FEATURES

- Accuracy to $\pm 0.05\%$ full scale (BFSL)
- Up to 20:1 span turn down
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- Built-in process temperature display
- Built-in selectable process digital filtering
- Welded 316 stainless steel pressure chamber
- 32 point process linearization
- Adjustable display for easy viewing
- 12 different measurement units
- CE compliant

APPLICATIONS

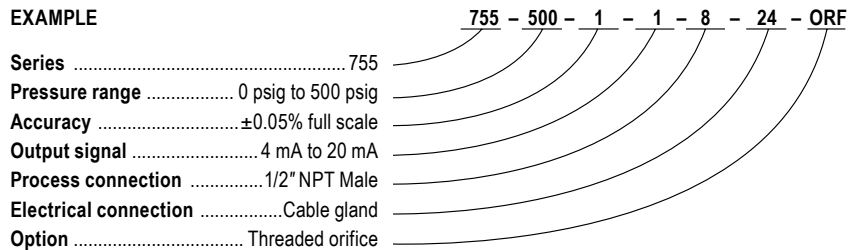
- Hydraulic and pneumatic systems
- Pumps and compressors
- Test equipment and systems
- Industrial machinery and machine tools
- HVAC systems
- Power generation
- Water and wastewater
- Refrigeration equipment
- Laboratory and test equipment
- Chemical/petrochemical
- Marine

ORDERING INFORMATION				
SERIES	755 Stainless steel threaded			
PRESSURE RANGES	5	0 psig to 5 psig	500	0 psig to 500 psig
	25	0 psig to 25 psig	1500	0 psig to 1,500 psig
	100	0 psig to 100 psig	3000	0 psig to 3,000 psig
	250	0 psig to 250 psig	7500	0 psig to 7,500 psig
		psig = gauge pressure	psia = absolute pressure	
ACCURACY	1	±0.05% full scale (BFSL)		
OUTPUT SIGNAL	1	4 mA to 20 mA, 2-wire		
PROCESS CONNECTIONS	2	1/4" NPT male	8	1/2" NPT male
ELECTRICAL CONNECTION	24	Cable gland M20x1.5 with internal terminal block, accepts cable diameter from 0.25" to 0.5"		
OPTION	ORF	Threaded Orifice		

Specify actual calibration, otherwise transmitter will be set for full scale range

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

EXAMPLE



Outline Dimensions



WIRING DIAGRAM

Wiring	Internal Junction Box
+ Supply	L+
+ Output	L-
Ground	
Test Circuit	

NOTE
See 621/622 Series for G1/2B and G1B front flush process connection dimensions pg. 29