



### APPLICATIONS

- Irrigation
- Tank monitoring
- Water & wastewater
- Well head measurement

## 612 SERIES

- Ranges from 0 inH<sub>2</sub>O to 50 inH<sub>2</sub>O through 0 psig to 1,000 psig
- Current and voltage outputs available
- 316 stainless steel, polyamide and polyurethane 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 and 0 Vdc to 10 Vdc, 3-wire; 0.5 Vdc to 2.5 Vdc, 3-wire
Pressure ranges	0 inH <sub>2</sub> O to 50 inH <sub>2</sub> O through 0 psig to 1,000 psig
Accuracy	± 0.25% full scale (BFSL); optional ± 0.125% 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
Response time	≤ 1 ms (between 10% and 90% full scale)
Durability	> 100,000,000 full scale cycles
Temperature ranges	Compensated 32 °F to 122 °F/0 °C to 50 °C Effect ± 0.01%/ °F for zero and span Media 14 °F to 122 °F / -10 °C to 50 °C Storage -22 °F to 175 °F/-30 °C to 80 °C
Power requirement*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire, 0 Vdc to 5 Vdc, 3-wire) 5 Vdc to 30 Vdc (0.5 Vdc to 2.5 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 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	2 times range
Burst pressure	4 times range
Measuring element	Cap: Polyamide, 316 stainless steel with weighted nosecone Cable: Polyurethane, PTFE available on special versions PVC with double water block
Connection	316 stainless steel
Housing material	316 stainless steel
Environmental rating	IP68
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity protection, short circuit and optional lightning protection per EN 6100-4-5; 1.5J
Shock	100 g's according to IEC 60068-2-27
Vibration	15 g's according to IEC 60068-2-6
Weight	Approximately 7 oz. with standard nosecone - cable extra

\* Unregulated

ORDERING INFORMATION											
SERIES		612									
PRESSURE RANGES	50 inH <sub>2</sub> O	0 inH <sub>2</sub> O to 50 inH <sub>2</sub> O	2	0 psig to 2 psig (4.6 ftH <sub>2</sub> O)		20	0 psig to 20 psig (46.2 ftH <sub>2</sub> O)		200	0 psig to 200 psig (461.3 ftH <sub>2</sub> O)	
	100 inH <sub>2</sub> O	0 inH <sub>2</sub> O to 100 inH <sub>2</sub> O	3	0 psig to 3 psig (6.9 ftH <sub>2</sub> O)		25	0 psig to 25 psig (57.7 ftH <sub>2</sub> O)		300	0 psig to 300 psig (692.5 ftH <sub>2</sub> O)	
	150 inH <sub>2</sub> O	0 inH <sub>2</sub> O to 150 inH <sub>2</sub> O	5	0 psig to 5 psig (11.5 ftH <sub>2</sub> O)		30	0 psig to 30 psig (69.2 ftH <sub>2</sub> O)		350	0 psig to 350 psig (807.9 ftH <sub>2</sub> O)	
	200 inH <sub>2</sub> O	0 inH <sub>2</sub> O to 200 inH <sub>2</sub> O	10	0 psig to 10 psig (23.1 ftH <sub>2</sub> O)		60	0 psig to 60 psig (138.5 ftH <sub>2</sub> O)		500	0 psig to 500 psig (1154.2 ftH <sub>2</sub> O)	
	400 inH <sub>2</sub> O	0 inH <sub>2</sub> O to 400 inH <sub>2</sub> O	15	0 psig to 15 psig (34.6 ftH <sub>2</sub> O)		100	0 psig to 100 psig (230.8 ftH <sub>2</sub> O)		750	0 psig to 750 psig (1733.3 ftH <sub>2</sub> O)	
	psig = gauge pressure      Other ranges available on request					150	0 psig to 150 psig (346.3 ftH <sub>2</sub> O)		1000	0 psig to 1,000 psig (2311.0 ftH <sub>2</sub> O)	
ACCURACIES	1	±0.25% full scale (BFSL)				2	±0.125% 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				11	0.5 Vdc to 2.5 Vdc, 3-wire				
PROCESS CONNECTIONS	N	Nosecone				W	Nosecone w/added weight (1.1 lb.)				
	T	G 1/2 B x 1/2" NPT male with 1/4" NPT female									
ELECTRICAL CONNECTIONS	XX	Standard polyurethane (PUR) cable				38-XX	Optional FEP cable				
	22-XX	Optional water-blocked PVC cable (200+ psi only)									
	NOTE: XX = length of cable in feet.										
OPTIONS	PT1	PT100 RTD <sup>1</sup>	CC	Cable Clamp		FE	Filter Element				
	DC	Desiccant Cartridge	LP	Lightning Protection <sup>1</sup>		JB	Cable Junction Box				

<sup>1</sup> Not available for PVC cable

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

## EXAMPLE

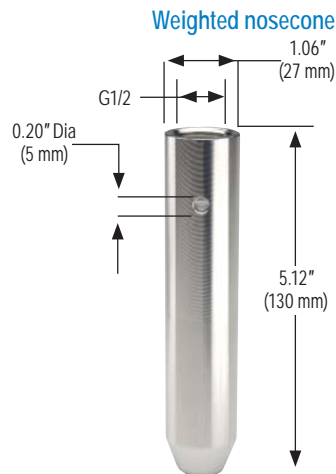
Series ..... 612 Series  
 Pressure range ..... 0 psig to 5 psig  
 Accuracy ..... ±0.25% full scale (BFSL)  
 Output signal ..... 4 mA to 20 mA, 2-wire  
 Process connection ..... Nosecone  
 Electrical connection ..... 50' of submersible polyurethane cable

612 - 5 - 1 - 1 - N - 50



## 2-WIRE WIRING

Wiring	Cable
+ Supply	Red
+ Output	Black



## 3-WIRE WIRING

Wiring	Cable
+ Supply	Red
Common	Black
+ Output	White

