



613 SERIES

- Designed for severe high solids environments such as sewage, lift stations, storm canals, wet wells and slurry tanks where sludge, slurry or turbulence may be present
- Ideal for a wide variety of industrial and municipal liquid level measurement applications requiring watertight protection
- Welded at cap and base to provide a leak-tight seal
- Highly accurate, shock resistant and extremely stable over long periods of time
- Standard 1/2" NPT conduit for attaching lifting rings or mounting brackets
- Advanced diffused semi-conductor and sputtered thin film sensor for maximum stability
- Ranges from 0 inH₂O to 50 inH₂O through 0 psi to 300 psi (higher ranges available on request)
- Corrosion resistant 316L stainless steel construction
- Reverse polarity protection and short circuit protection are standard
- Optional 5 to 30 Vdc input for 0.5 to 2.5 Vdc output, for field applications
- Optional integrated temperature measurement (PT100 RTD)

FEATURES

- Advanced diffused semi-conductor and sputtered thin film sensor for maximum stability
- High accuracy and long term stability
- Ranges from 0 inH₂O to 50 inH₂O through 0 psi to 300 psi
- Corrosion resistant stainless steel construction
- Optional 5-30 Vdc input for 0.5 to 2.5 Vdc output, for field applications
- Optional integrated temperature measurement (PT100 RTD)

APPLICATIONS

- Sewage
- Lift stations
- Storm canals
- Wet wells
- Slurry tanks

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 in H ₂ O to 50 in H ₂ O through 0 psig to 300 psig
Proof pressure	2 times range
Burst pressure	4 times range
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)
Repeatability	≤ ± 0.05% full scale
Electrical connection	Submersible 1/2" NPT conduit
Hysteresis	≤ ± 0.1% full scale
Stability	≤ ± 0.2% full scale for 1 year, non-accumulating
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
Wetted materials	Housing: 316 stainless steel Cage seal: All 316 stainless steel Cable: Polyurethane, FEP available on special versions
Power supply*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire) 10 Vdc to 30 Vdc (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)
Temperature ranges	Compensated 32 °F to 122 °F (0 °C to 50 °C) Effect ± 0.01%/ °F for zero and span Storage -22 °F to 175 °F (-30 °C to 80 °C) Medium 14 °F to 122 °F (-10 °C to 50 °C)
Temperature measurement	Optional PT100, 4-wire per IEC 60751
Response time	≤ 1 ms (between 10% and 90% full scale)
Environmental protection	NEMA 6P, IP68
Electromagnetic rating	2004/108/EEC, EN 61326 Emission (Group 1, Class B) and Immunity (industrial locations)
Electrical protection	Reverse polarity protection, short circuit and optional lightning protection per EN 6100-4-5; 1.5J
Shock	Less than ± 0.05% full scale effect for 100 g's @ 20 ms on any axis
Vibration	Less than ± 0.01% full scale effect for 15 g's @ 0 Hz to 2,000 Hz on any axis
Weight	Approximately 3.2 lb. - cable extra

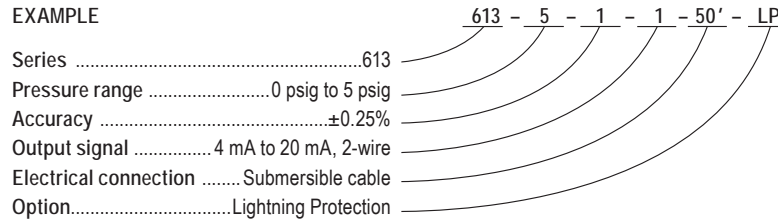
* Unregulated power supplies

ORDERING INFORMATION				
SERIES	613			
PRESSURE RANGES	5	0 psi to 5 psi (11.55 ft/H ₂ O)	20	0 psi to 20 psi (46.20 ft/H ₂ O)
	10	0 psi to 10 psi (23.10 ft/H ₂ O)	30	0 psi to 30 psi (69.30 ft/H ₂ O)
	15	0 psi to 15 psi (34.65 ft/H ₂ O)	50	0 psi to 50 psi (115.50 ft/H ₂ 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
ELECTRICAL CONNECTIONS	-XX Standard Polyurethane (PUR) cable NOTE: XX=length of cable in feet.		-38-XX FEP cable	
OPTIONS	CC	Cable Clamp	FE	Filter Element
	DC	Desiccant Cartridge	JB	Cable Junction Box (NEMA 4X)
			LP	Lightning Protection ¹
			LR	Lifting Ring
			PT1	PT100 RTD ¹

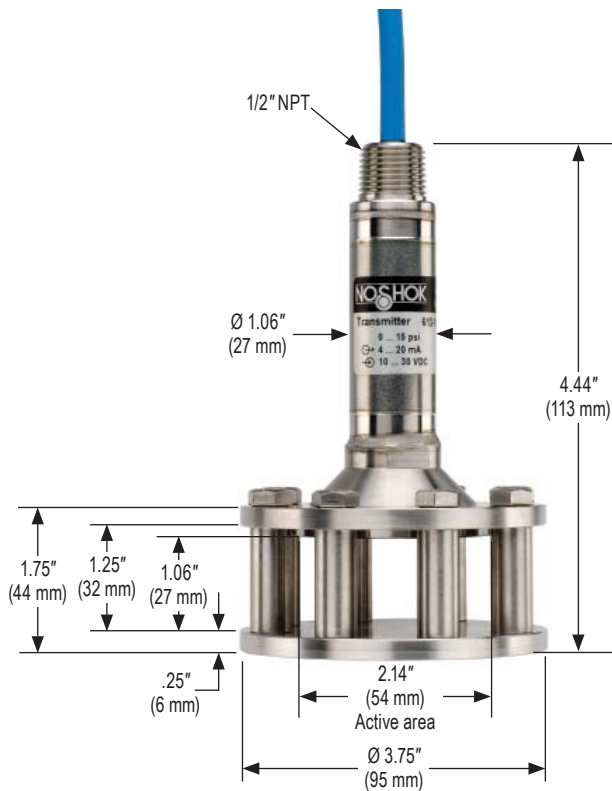
¹ Only available with PUR cable

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

EXAMPLE



Outline Dimensions



Optional Cable Clamp



Optional Cable Junction Box



Optional Filter Element



Optional Desiccant Cartridge



Optional Lifting Ring