Intrinsically Safe Submersible

627 SERIES

- Ranges from 0 inH_2O to 50 inH_2O through 0 psig to 350 psig
- Current output
- 316 stainless and 17-4PH steel wetted parts
- Factory Mutual and Canadian Standards Association approved
- CE compliant to suppress RFI, EMI and ESD

APPLICATIONS

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

SPECIFICATIONS	
Output signal	4 mA to 20 mA, 2-wire
Pressure ranges	0 inH_2O to 50 inH_2O through 0 psig to 350 psig
Accuracy	±0.25 % full scale (BFSL); optional ±0.125% full scale (BFSL), for ranges ≥ 150 inH_2O (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) Zero effect is ±0.011% full scale/ °F within compensated range Span effect is ±0.011% full scale/ °F within compensated range Media 15 °F to 175 °F (-10 °C to 60 °C) Ambient 15 °F to 122 °F (-10 °C to 50 °C) Storage -30 °F to 175 °F (-34 °C to 60 °C)
Power requirement*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire)
Load limitations	≤ (VPower-10)/0.020 Amp-(0.043 Ω x length of cable in feet)
Proof pressure	2 times range
Burst pressure	3 times range
Measuring element	Diaphragm and cap: 316 stainless steel 17-4PH stainless steel for 0 psig to 350 psig Cable: Polyurethane, optional FEP
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, over-voltage and short circuit protected
Weight	Approximately 7 oz. with standard nosecone - cable extra

* Unregulated

NOSHOK 627 Series transmitters are Factory Mutual and Canadian Standards Association approved for use in hazardous location applications as follows:
Intrinsically Safe, entity approval for Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; and Class I, Zone 0 Aex ia IIC
Dust ignition-proof for Class II and III, Division 1, Groups E, F and G
Non-incendive for Class I, Division 2, Groups A, B, C and D
FMRC 3600, 3610, 3611, 3810 (including supplement #1),
ISA-S12.0. 01, IEC 60529 (including amendment #1).
CE compliant with pressure equipment directive 97/23EC.

ORDERING INFORMATION					
SERIES	627				
PRESSURE RANGES	50inH$_2$O	0 inH$_2$O to 50 inH$_2$O	5	0 psig to 5 psig (11.5 ftH$_2$O)	100 0 psig to 100 psig (230.7 ftH$_2$O)
	100inH$_2$O	0 inH$_2$O to 100 inH$_2$O	10	0 psig to 10 psig (23.1 ftH$_2$O)	160 0 psig to 160 psig (369.1 ftH$_2$O)
	150inH$_2$O	0 inH$_2$O to 150 inH$_2$O	15	0 psig to 15 psig (34.6 ftH$_2$O)	200 0 psig to 200 psig (461.3 ftH$_2$O)
	250inH$_2$O	0 inH$_2$O to 250 inH$_2$O	25	0 psig to 25 psig (57.7 ftH$_2$O)	300 0 psig to 300 psig (692.3 ftH$_2$O)
	400inH$_2$O	0 inH$_2$O to 400 inH$_2$O	30	0 psig to 30 psig (69.2 ftH$_2$O)	350 0 psig to 350 psig (807.3 ftH$_2$O)
			60	0 psig to 60 psig (138.4 ftH$_2$O)	
	psig = gauge pressure	inH$_2$O = inches of water	ftH$_2$O = feet of water	Other ranges available on request.	
ACCURACIES	1	±0.25% full scale (BFSL)	2	±0.125% full scale (BFSL) on ≥ 150 inH$_2$O	
OUTPUT SIGNAL	1	4 mA to 20 mA, 2-wire			
PROCESS CONNECTIONS	N	Stainless steel nosecone	W	Stainless steel weighted nosecone (1.1 lb.)	
	T	NPT adapter, 1/2″ NPT male outer thread with 1/4″ NPT female inner thread attached to transmitter process connection with straight thread and o-ring seal			
ELECTRICAL CONNECTIONS	XX	Standard Polyurethane cable			
	38-XX	Optional FEP cable	NOTE: XX = length of cable in feet		
OPTIONS	CBC	Cable Clamp	FE	Filter Element	
	DC	Desiccant Cartridge	JB	Cable Junction Box	

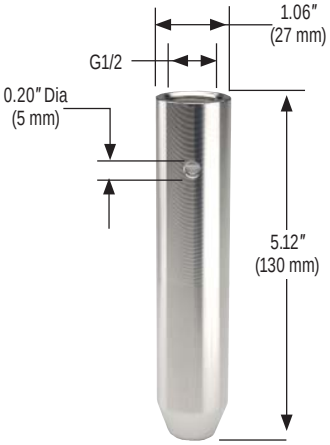
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

EXAMPLE

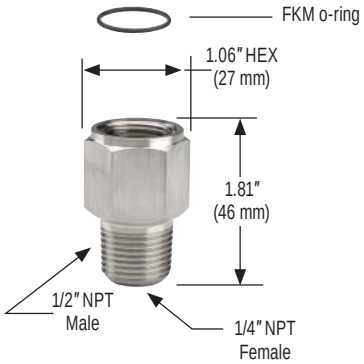
627 – 350 – 1 – 1 – N – 300

Series ..... 627 Series
Pressure range ..... 0 psig to 350 psig
Accuracy ..... ±0.25% full scale (BFSL)
Output signal ..... 4 mA to 20 mA, 2-wire
Process connection ..... Stainless steel nosecone
Electrical connection ..... 300' of submersible Polyurethane cable

Weighted Nosecone



NPT Adapter



2-WIRE WIRING

+ Supply	Brown
+ Output	Green