

Intrinsically Safe Submersible



627 SERIES

- Ranges from 0 inH₂O to 50 inH₂O through 0 psig to 350 psig
- Current output
- 316 Stainless and 17-4PH Steel wetted parts
- 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 ₂ O to 50 inH ₂ O through 0 psig to 350 psig
Accuracy	±0.25 % full scale (BFSL); optional ±0.125% full scale (BFSL), for ranges ≥ 150 inH ₂ O (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)
Service life	>100,000,000 load 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 14 °F to 140 °F (-10 °C to 60 °C) Ambient 14 °F to 140 °F (-10 °C to 60 °C) Storage 14 °F to 140 °F (-10 °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 61326:2014/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 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 2014/68/EU.



WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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	G 1/2 B x 1/2" NPT male with 1/4" NPT female				
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

Series

Pressure range

Accuracy

Output signal

Process connection

Electrical connection

627 Series

0 psig to 350 psig

±0.25% full scale (BFSL)

4 mA to 20 mA, 2-wire

Stainless Steel nosecone

300' of submersible Polyurethane cable

627

-

350

-

1

-

1

-

N

-

300

5.12" (130 mm)

0.73" (18.5 mm)

0.20" Dia (5 mm)

1.06" (26.92 mm)

5.12" (130 mm)

1.06" (27 mm)

G1/2

0.20" Dia (5 mm)

Weighted Nosecone

1.06" (27 mm)

5.12" (130 mm)

G1/2

0.20" Dia (5 mm)

NPT Adapter

FKM o-ring

1.06" HEX (27 mm)

1.81" (46 mm)

1/2" NPT Male

1/4" NPT Female

2-WIRE WIRING

V+	Brown
V-	Green
Shield	Gray

91