

# Noshok Submersible Pressure Transducer

- Diffused Semiconductor Sensor
- High Accuracy and Long Term Stability
- Ranges from 2 through 300 PSI
- Corrosion Resistant Stainless Steel Construction
- Nose Cone Standard
- Lightning Protection Standard
- Optional 6 VDC Input .5 to 2.5 Output for Field Applications

Noshok Series 612 submersible pressure transducers were designed to provide a previously unequalled level of performance. Utilizing diffused semiconductor sensor technology, Series 612 transducers are accurate, shock resistant, and extremely stable over long periods of time. Reverse polarity protection, short circuit protection and lightning protection have been engineered in as standard features.

Advanced manufacturing techniques, combined with technologically advanced standard features, allow Noshok to offer a level of performance previously found on transducers costing hundreds of dollars more.

A final electrical output and calibration inspection is performed on all Noshok transducers and transmitters after final assembly and prior to shipment to insure 100% "out of the box" reliability.



▲ Series 612



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## SPECIFICATIONS

<b>Output Signal:</b>	4–20 mA, 2-wire; 0–5 VDC and 0–10 VDC, 3-wire; 0.5–2.5 VDC, 3-wire
<b>Pressure Ranges:</b>	0–2 PSI through 300 PSI
<b>Proof Pressure:</b>	2 times range
<b>Burst Pressure:</b>	4 times range
<b>Accuracy BFSL:</b> (includes repeatability, hysteresis, and linearity)	±0.25% FS (standard) ±0.1% FS (optional)
<b>Stability:</b>	±0.2% FS per year
<b>Input Excitation:</b>	10–30 VDC for current output 10–30 VDC for 0–5 VDC voltage output 14–30 VDC for 0–10 VDC voltage output 6 VDC for 0.5 to 2.5 VDC output
<b>Temperature Ranges:</b>	Compensated 32° to 122°F/0 to 50°C Effect ±0.01%/°F to zero point and pressure range Medium: 14° to 175°F/-10° to 80°C
<b>Response Time:</b>	Less than 1 ms
<b>Durability:</b>	100 million cycles minimum
<b>Environmental Protection:</b>	NEMA 6, IP68
<b>Electromagnetic Capability</b> per IEC 1000 (EN 50081, EN 50082):	4-2 ESD Level 2 4-3 Fields (RFI) Level 2 4-4 Burst Level 3 4-5 Surge Level 2
<b>Electrical Protection:</b>	Reverse polarity protection, short circuit, and lightning protection
<b>Shock:</b>	Less than ±0.05% FS effect or 100 gs @ 20 ms on any axis
<b>Vibration:</b>	Less than ± 0.01% FS effect for 15 gs @ 0–2000 Hz on any axis

## ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.  
 Order Example: DK612-25-1-1-N-50-W

A	-	B	-	C	-	D	-	E	-	F	-	G
<b>A Basic Unit</b>												
DK612 Submersible Transducers												
<b>B Pressure Range</b>												
<b>Code</b>	<b>Range</b>	<b>Code</b>	<b>Range</b>									
2	0–2 PSIG	30	0–30 PSIG									
3	0–3 PSIG	60	0–60 PSIG									
5	0–5 PSIG	100	0–100 PSIG									
10	0–10 PSIG	150	0–150 PSIG	N/C								
15	0–15 PSIG	200	0–200 PSIG									
25	0–25 PSIG	300	0–300 PSIG									
<b>C Accuracy (BFSL)</b>												
1			±0.25% FS	STD								
2			±0.1% FS									
<b>D Output Signal</b>												
1			4–20 mA, 2-wire	STD								
2			0–5 VDC, 3-wire									
5			0–10 VDC, 3-wire									
11			0.5 to 2.5 VDC, (6 volt operation) 3-wire									
<b>E Process Connection</b>												
N			Nose Cone	STD								
<b>F Electrical Connection</b>												
Specify length			Submersible Cable									
<b>G Options</b>												
W			Weighted Nose Cone									