

Noshok Pressure Transducers and Transmitters

- Thin Film and Diffused Semiconductor Sensor
- High Accuracy and Long Term Stability
- RFI, EMI, and ESD Protection per IEC 1000
- High Overpressure Protection
- Corrosion Resistant Stainless Steel Construction

Series 100 and 200 pressure transmitters and transducers are designed to provide a previously unequalled level of performance, utilizing diffused semiconductor or sputtered thin film technology. Series 100 and 200 transducers are highly accurate, shock resistant and extremely stable over a long period of time.

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number
Order Example: DK100-7500-1-5-2-7-ORF

A - B - C - D - E - F

A	Basic Unit		Price & Adds	
DK100	4–20 mA DC Output			
DK200	DC Voltage Output			
B	Pressure Range			
Code	Range	Code	Range	
30V	0–30" VAC	30/60	30"/60 PSIG	
30/15	30"/15 PSIG	30/150	30"/150 PSIG	
30/30	30"/30 PSIG			
5	0–5 PSIG	1000	0–1000 PSIG	N/C
30	0–30 PSIG	1500	0–1500 PSIG	
60	0–60 PSIG	2000	0–2000 PSIG	
100	0–100 PSIG	3000	0–3000 PSIG	
200	0–200 PSIG	5000	0–5000 PSIG	
300	0–300 PSIG	7500	0–7500 PSIG	
500	0–500 PSIG			
10000	0–10000 PSIG			
15A	0–15 PSIA	150A	0–150 PSIA	
30A	0–30 PSIA	200A	0–200 PSIA	
60A	0–60 PSIA	300A	0–300 PSIA	
100A	0–100 PSIA			
C	Accuracy (BFSL)			
1	±0.5% of FS		N/C	
2	±0.25% of FS			
D	Output Signal			
1	4–20 mA DC, 2-wire		N/C	
2	0–5 VDC, 3-wire		N/C	
4	1–6 VDC, 3-wire		N/C	
5	0–10 VDC, 3-wire		N/C	
E	Process Connections			
1	1/8" NPT male		N/C	
2	1/4" NPT male		N/C	
3	3/16" 20 UNF—2A male			
F	Electrical Connections			
1	36" cable (connected to option 7)			
2	4-pin BENDIX			
3	6-pin BENDIX			
6	1/2" NPT Conduit with 36" Cable			
7	Mini Hirschmann with mating connector		STD	
G	Options			
0	None		N/C	
ORF	Stainless steel threaded orifice			



▲ Series 100



SPECIFICATIONS

Output Signal:	4–20 mA, 2-wire; 0–5V, 3-wire; 0–10V, 3-wire; 1–6V, 3-wire
Pressure Ranges:	Vacuum and compound through 15,000 PSI; gauge and absolute
Proof Pressure:	0–5, 0–10, 0–7500 through 0–15000 PSI: 1.5 times 0–15 PSI through 0–6000 PSI: 2 times range
Burst Pressure:	0–5, 0–10, 0–7500 through 0–15000 PSI: 2 times 0–15 PSI through 0–6000 PSI: 5 times range
Accuracy BFSL: (includes repeatability, hysteresis, and linearity)	±0.5% FS (standard) ±0.25% FS (optional)
Repeatability:	±0.05% FS
Hysteresis:	±0.1% FS
Input Excitation:	14–30 VDC for voltage output; 12–30 for 4–20 mA
Temperature Ranges:	Compensated 0° to 175°F/-16 to 80°C Effect ±0.02% FS/°F for zero and span Medium -22° to 212°F/-30° to 100°C Ambient -40° to 185°F/-40° to 85°C
Response Time:	Less than 1 ms (between 10–90% FS)
Durability:	100 million cycles minimum
Adjustment:	±5% FS of zero and span
Environmental Protection:	NEMA 4X, DIN IP65 (IEC 529)
Electromagnetic Capability per IEC 1000 (EN 50081, EN 50082):	4-2 ESD Level 2 4-3 Fields (RFI) Level 2, (EN 50081, EN 50082) 4-4 Burst Level 3, 4-5 Surge Level 2
Electrical Protection:	Reverse polarity, overvoltage, and short circuit protection
Shock:	Less than ±0.05% FS effect on 100 gs @ 20 ms on any axis
Vibration:	Less than ±0.05% FS effect for 30 gs @ 5–2000 Hz on any axis