

Noshok Pressure Transducers and Transmitters

- Thin Film and Diffused Semiconductor Sensor
- High Accuracy and Long Term Stability
- Ranges from 2 through 10,000 PSI
- Corrosion Resistant Stainless Steel Construction
- Span and Zero Adjustments

Noshok Series 615 and 625 pressure transmitters and transducers are designed to provide a previously unequalled level of performance, utilizing diffused semiconductor or sputtered thin film technology. Series 625 transmitters were developed for applications that require pressure measurement in potentially explosive environments. RFI, EMI, and ESD protection has been engineered in as a standard feature.

Specifications

Output Signal:	4–20 mA, 2-wire; 1–5 VDC, 1–6 VDC, 0–5 VDC and 0–10 VDC, 3-wire
Pressure Ranges:	Vacuum and compound through 10,000 PSI
Proof Pressure:	0–2 PSI through 0–7500 PSI; 2 times range
Burst Pressure:	0–2 PSI through 0–7500 PSI; 4 times range 0–10000 PSI; 2 times range
Accuracy BFSL: (includes repeatability, hysteresis, and linearity)	± 0.25% FS (standard) ± 0.1% FS (optional)
Input Excitation:	10–30 VDC for current output 14–30 VDC for voltage output
Stability:	± 0.2%FS per year
Temperature Ranges:	Compensated 32° to 175°F/0 to 80°C Effect ±0.01%/°F of zero and span Medium: 20° to 212°F/-30° to 100°C Ambient: 15° to 175°F/-10° to 80°C
Response Time:	Less than 1 ms
Durability:	100 million cycles minimum
Adjustment:	±5% FS of zero and span
Environmental Protection:	NEMA 4X, 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 for 100 gs @ 20 ms on any axis
Vibration:	Less than ± 0.01% FS effect for 15 gs @ 0–2000 Hz on any axis



615/625

Ordering Information

To Order—Insert Number Code for Each Letter to Select Catalog Number
Order Example: MP615-60-1-1-2-8

A	B	C	D	E	F	
A Basic Unit						Price & Adders
MP615		High Performance				
MP625		Intrinsically Safe; FM, CSA approved				
B Pressure Range						
Code	Range	Code	Range			
30V	0–30 "Hg VAC	30/60	30 "Hg/60 PSIG			
30/15	30 "Hg/15 PSIG					
2	0–2 PSIG					
5	0–5 PSIG	500	0–500 PSIG			
15	0–15 PSIG	750	0–750 PSIG			
30	0–30 PSIG	1000	0–1000 PSIG			N/C
60	0–60 PSIG	2000	0–2000 PSIG			
100	0–100 PSIG	3000	0–3000 PSIG			
150	0–150 PSIG	5000	0–5000 PSIG			
300	0–300 PSIG	7500	0–7500 PSIG			
10000	0–10,000 PSIG					
C Accuracy (BFSL)						
1	±0.25% of FS				N/C	
2	±0.1% of FS					
D Output Signal						
1	4–20 mA DC (Standard on 625), 2-wire				N/C	
2	0–5 VDC, 3-wire					
5	0–10 VDC, 3-wire					
E Process Connections						
2	¼" NPT male				N/C	
8	½" NPT male				STD	
F Electrical Connections						
1	36" cable (connected to option 8)					
3	6 Pin BENDIX					
6	½" NPT conduit with 36" cable					
8	Hirschmann with mating connector STD					



For Pressure Calibrators
see pages A64-A91

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: MP100-7500-1-5-2-7-ORF			
A	B	C	F
A Basic Unit			Price & Address
MP100	4–20 mADC Output		
MP200	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
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		STD
2	±0.25% of FS		
D Output Signal			
1	4–20 mADC, 2-wire		STD
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		STD
3	7/16" 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

D

Pressure/Flow Test Instruments

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.

D 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



Specifications

Output Signal:	4–20 mA, 2-wire; 0–5 VDC and 0–10 VDC, 3-wire; 0.5–2.5 VDC, 3-wire
Pressure Ranges:	0–2 PSI through 300 PSI
Proof Pressure:	2 times range
Burst Pressure:	4 times range
Accuracy BFSL: (includes repeatability, hysteresis, and linearity)	±0.25% FS (standard) ±0.1% FS (optional)
Stability:	±0.2% FS per year
Input Excitation:	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
Temperature Ranges:	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
Response Time:	Less than 1 ms
Durability:	100 million cycles minimum
Environmental Protection:	NEMA 6, IP68
Electromagnetic Capability 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
Electrical Protection:	Reverse polarity protection, short circuit, and lightning protection
Shock:	Less than ±0.05% FS effect or 100 gs @ 20 ms on any axis
Vibration:	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: MP612-25-1-1-N-50-W

A	B	C	D	E	F	G
A Basic Unit						
MP612 Submersible Transducers						
B Pressure Range						
Code	Range	Code	Range			
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			
C Accuracy (BFSL)						
1	±0.25% FS				STD	
2	±0.125% FS					
D Output Signal						
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					
E Process Connection						
N	Nose Cone				STD	
F	Electrical Connection					
	Specify length		Submersible Cable			
G Options						
W	Weighted Nose Cone					