

Model Description Code

Pressure Range

025 = 25 psig	003 = 3 bar
050 = 50 psig	005 = 5 bar
075 = 75 psig	007 = 7 bar
100 = 100 psig	017 = 17 bar
250 = 250 psig	035 = 35 bar
500 = 500 psig	070 = 70 bar
01K = 1000 psig	175 = 175 bar
2K5 = 2500 psig	350 = 350 bar
05K = 5000 psig	525 = 525 bar
7K5 = 7500 psig	700 = 700 bar
10K = 10000 psig	

Pressure Units

P = psi
B = Bar

Electrical Output

3 = 0.5 to 4.5 Vdc
4 = 1.0 to 5.0 Vdc
5 = 4-20 mAdc

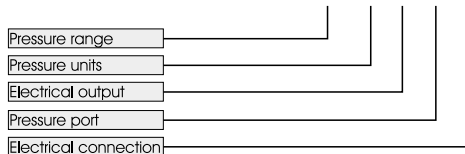
Pressure Port

N = 1/4" NPT
A = 1/8" NPT
B = 1/4" BSP
D = 7/16"-20 UNF
G = M14x1.0 mm
H = 1/8" FNPT
I = 1/4" FNPT

Electrical Connection

1 = 2 ft. Cable
2 = 4 ft. Cable
3 = 10 ft. Cable
4 = Packard Connector

EXAMPLE: MSP-600-500-P-3-N-1



Packard Connector, Type -3 & -4

Pin A = + Supply
Pin B = GND
Pin C = Output

Packard Connector, Type -5

Pin A = + Supply
Pin B = Output
Pin C = Not used

* Packard Mating Connector:

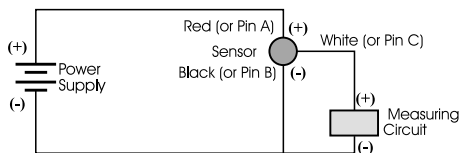
1 ea. - Housing p/n: 12078090
3 ea. - Pins p/n: 12103881-L

WARNING: READ BEFORE INSTALLATION

When using this transducer, care should be taken when installing and operating this product. Be sure to observe the correct electrical connections and power requirements as noted in this instruction sheet and avoid exposing the transducer to pressure spikes in excess of the rated over pressure specification. Failure to do so may result in permanent damage to the transducer.

Output
Type - 3

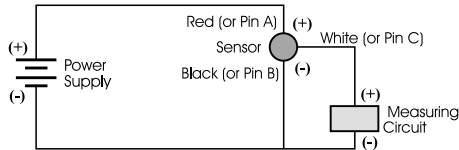
Supply 5 Vdc (4.75-5.25) Output 0.5 - 4.5 Vdc (ratiometric)



Voltage Output Sensor Wiring Configuration
(Single-Ended/Amplified Output)

Output
Type - 4

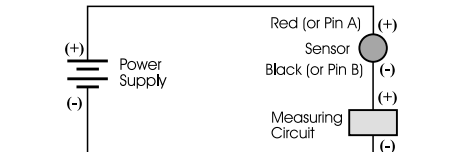
Supply 10-30 Vdc Output 1-5 Vdc (Fixed)



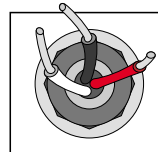
Voltage Output Sensor Wiring Configuration
(Single-Ended/Amplified Output)

Output
Type - 5

Supply 10-30 Vdc Output 4-20 mAdc (Two-Wire)

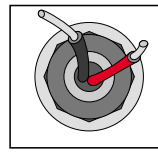


Current Output
Sensor Wiring Configuration



Cable Output, Type -3 & -4

Red = + Supply
Black = GND
White = Output
Green = Not used
Bare = Drain (connected to housing)



Cable Output, Type -5

Red = + Supply
Black = Output
White = Not used
Green = Not used
Bare = Drain (connected to housing)

Performance Specifications

Accuracy (combined linearity, hysteresis and repeatability)	±0.25% BSL, max (per ISA S37.2)
Media compatibility	17-4 PH stainless steel, (316 stainless steel available upon request)
Pressure overload	2x rated pressure
Burst pressure	5x full scale or 20,000 psi, whichever is less
Long term stability (1 year)	±0.25% of FS Span (Typical)

Electrical

Load impedance	For voltage output configurations use > 100K Ohms for quoted performance For 4-20 mA output configuration use 0.05*(Vsupply-10) K Ohms for max loop resistance.
Bandwidth (-3dB)	DC to 1 KHz (Typical)
Operating temp range	-40° to 212°F (-40° to 100°C) for cable configuration -40° to 257°F (-40° to 125°C) for Packard - style connector configuration
Compensated temp range	4° to 185°F (-20° to 85°C)
Total error band (over compensated temperature range)	< ±1% of FS (75-10,000 PSI), < ±1.5% of FS (25-50 PSI)
(over full operating temperature range)	< ±1.5% of FS (-40° to 125°C)
Storage temperature range	-49° to 212°F (-45° to 100°C) for cable configuration -49° to 257°F (-45° to 125°C) for Packard - style connector configuration
Shock	50g, 11 msec half sine shock per MIL-STD- 202F, method 213B, condition A
Vibration	±20g MIL-STD-810C, Procedure 514.2, Figure 514.2-2, curve L
EMI/RFI	EN 50081-2 EN 50082-2 (10 V/M, 26-1000 Mhz) EN 61326 (Effective July 1, 2001)

Note: All performance and electrical specifications are referenced to 25°C, unless otherwise indicated.

Dear Valued Customer:

The enclosed pressure transducer has been manufactured, tested and inspected in accordance with all applicable procedures and practices as established in our registered ISO 9000 quality system. We certify that this sensor is in full conformance with all written specifications as contained in this instruction sheet.

Signature: Charlie Chen
Title: Quality Manager, MSI/JL