



FEATURES

- Water Supply Industry
- Integral Pressure Cavity, No leakage
- Reverse Polarity Protection on Input
- Short Circuit Protection on Output
- Up to $\pm 0.25\%$ Accuracy
- Up to $\pm 1\%$ Total Error Band
- Compact Outline
- -40°C to $+125^{\circ}\text{C}$ Operating Temperature
- 0°C to $+70^{\circ}\text{C}$ Compensated Temperature

STANDARD RANGES

Range (psi)	Range (Bar)	Gage	Seal	Absolute	Compound
0...50	0...4	•			
0...100	0...6	•			
0...150	0...10	•			
0...250	0...16	•			
0...350	0...25	•			

Note: Intermediate ranges available upon request. For "•S" ,plesae confirm with factory.

SPECIFICATIONS

- High Overload Pressure, Upto 10 times
- Compact Design
- Variety of Pressure Ports and Electrical Configurations
- Optional damper
- High Weatherproof
- Gage,Compound
- Excellent Stability

APPLICATIONS

- Water Supply System
- Water Treatment
- Industrial Process Control and Monitoring
- Pumps and Compressors
- Hydraulic/Pneumatic Systems

PERFORMANCE SPECIFICATIONS

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS	MIN	TYP	MAX	UNIT	NOTES
Accuracy (combined non linearity, hysteresis, and repeatability)	-0.3	±0.25	0.3	%F.S. BFSL	@ 25°C
Zero Error	-0.5	±0.5	0.5	%F.S.BFSL	@ 25°C
Full Scale Error	-0.5	±0.5	0.5	%F.S.BFSL	@ 25°C
Isolation (Body to any Lead)	100			MΩ	@ 250VDC
Pressure Cycles	1X107			0~FS Cycles	
Proof Pressure	5X		10X	Rated	
Burst Pressure	20X			Rated	
Long Term Stability (1 year)	-0.5		0.5	%F.S	
Total Error Band	-1.5	±1.0	1.5	%F.S	Over compensated temp range
Compensated Temperature	-20		85	°C	
Operating Temperature	-40		125	°C	
Storage Temperature	-40		125	°C	
Load Resistance (RL)	RL > 100k			Ω	Voltage Output
Load Resistance (RL)	<Supply Voltage -9V) / 0.02A			Ω	Current Output
Current Consumption			10	mA	Voltage Output
Rise Time (10% to 90%)	<2ms (Voltage Output); <3ms (Current Output); Without Snubber				
Pressure Port Material	17-4PH+SST304 or 17-4 Integral Screw				
Shock	50g, 11msec Half Sine Shock per MIL-STD-202G, Method 213B, Condition A				
Vibration	±20g, MIL-STD-810C, Procedure 514.2-2, Curve L				
Mounting Torque	<20 Nm				

Notes: For custom configurations, please consult factory.

Compensated Temperature: The temperature range over which the product will produce an output proportional to pressure within the specified performance limits.

Operating Temperature: The temperature range over which the product will produce an output proportional to pressure but may not remain within the specified performance limits.

Storage Temperature: The temperature range over which the product can be stored safely in occasions without pressure applied or power input and remains rated performance. Beyond this temperature range may cause permanent damage to the product.

All configurations are built with supply voltage reverse and output short-circuit protections.

CE Compliance (just for reference)

EN 55022 Emissions Class A & B

IEC 61000-4-2 Electrostatic Discharge Immunity (8kV contact/15kV air)

IEC 61000-4-3 Radiated, Radio-Frequency Electromagnetic Field Immunity (10V/m, 80M-1GHz)

IEC 61000-4-4 Electrical Fast Transient Immunity (1kV)

IEC 61000-4-5 Surge Immunity (V+ to V-: ±2KV/42Ω; L to Case: ±1KV/12Ω; V- to V0: ±1KV/42Ω)

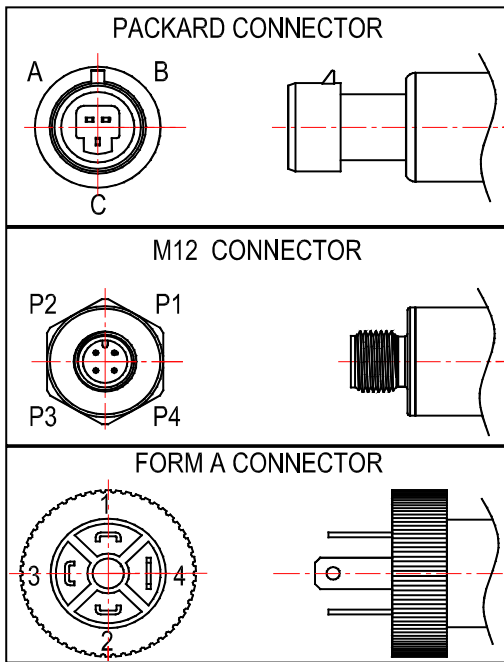
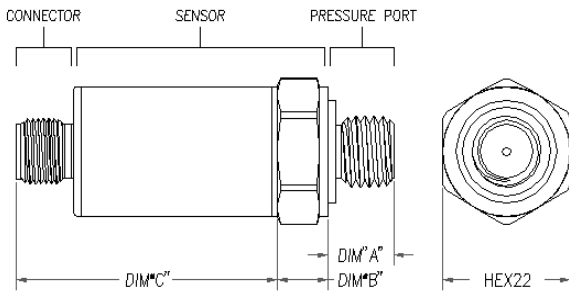
IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency

Fields (150K~80MHz, 10V level for voltage output models, 3V level for current output model)

IEC 61000-4-9 Pulse Magnetic Field Immunity (100A/m peak)

For all CE compliance tests, max allowed output deviation ±1.5 %F.S. (Just Factory Testing)

DIMENSIONS [mm]



CODE	CONNECTION TYPE	DIM C (MAX)
2	Packard A	2.10 [53.5]
3	Packard B	2.10 [53.5]
4	M12	1.71 [43,5]
5	FORM A	1.93 [49.0]

CODE	PRESSURE PORT TYPE		
	PORT	DIM A	DIM B
3	1/4-18 NPT	0.600 [15.24]	0.3 [8.0]
6	1/8-27 NPT	0.390 [9.91]	0.3 [8.0]
9	G1/4 DIN 3852 FORM E GASKET DIN3869-14 NBR	0.512 [13.00]	0.3 [8.0]
A	G 1/4 A (EN 837)	0.669 [17.00]	0.3 [8.0]
B	G 1/2 A (EN 837)	0.945 [24.00]	0.3 [8.0]
C	R 1/4	0.590 [25.00]	0.3 [8.0]

WEATHERPROOF

WEATHER-PROOF RATING		
CODE	CONNECTION TYPE	IP CODE
2	Packard A	IP66
3	Packard B	IP66
4	M12	IP67
5	FORM A	IP65

Note: Waterproof rating of pressure transmitter with vent is IP65.

OUTPUTS

CODE	OUTPUT SIGNAL	SUPPLY VOLTAGE
1	0.5 - 4.5V	5 ± 0.25V
	RATIOMETRIC	PROTECTED to 16V
2	1 - 5V	8 - 36V
3	4 - 20mA	9 - 36V
4	0 - 5V	8 - 36V
5	0 - 10V	13 - 36V
6	1 - 6V	8 - 36V
7	0.5 - 4.5V	7.5 - 36V

WIRING

Current Output Wiring				
CONNECTION	+SUPPLY	-SUPPLY	NC.PINS	P REF VENT
Packard A	A	B	C	Hole Through Connector
Packard B	B	A	C	
M12	1	2	3,4	
FORM A	1	2	3,4	

Voltage Output Wiring						
CONNECTION	+SUPPLY	+OUTPOT	COMMON	NC.PINS	P REF VENT	
Packard A	A	C	B	-	Hole Through Connector	
Packard B	B	C	A			
M12	1	3	2			4
FORM A	1	3	2			4

CONNECTION TYPES

CONNECTION TYPES			
CONNECTION	DESCRIPTION	MATING HOUSING P/N	MATING TERMINAL PIN
Packard	3-PIN METRI-PACK 150	12078090	12103881, QTY 3
M12	BINDER SERIES 713, 09 3431 77 04 OR EQUIV	4-POS FEMALE Connector	-
FORM A	OMAL ARB03S or ARB03R	OMAL AHB6733 3+PE	-

Notes: Transmitter of gage pressure type requires vent to atmosphere on the pressure reference side.

This is accomplished via cable from the transmitter (the end of the cable should be terminated to clean and dry area) or through the customer mating connector/cable assembly which has internal vent path.

ORDERING INFORMATION

Model	Output	Connection	Port Material	Snubber	Label	Pressure Port	Pressure Range	Pressure Type
WP73	1= 0.5-4.5V RATIOMETRIC 2= 1-5V 3= 4-20mA 4= 0-5V 5= 0-10V 6= 1-6V 7= 0.5-4.5V X= Customer Special	2= Packard A 3= Packard B 4= M12 5= FORM A X= Customer Special	1= 304Screw+ 17-4 Diaphragm 2= 17-4 Integral Screw X= Customer Special	0= No Snubber 1= With Snubber	0= No Label (OEM) 1= Adhesive Label 2= Laser Marking	3= 1/4-18 NPT 6= 1/8-27 NPT 9= G1/4 DIN 3852 A= G1/4 A (EN 837) B= G1/2 A (EN 837) C= R1/4 X= Customer Special	0...350psi B= Bar M= Mpa P= PSI K= Kpa	G= Gauge

Note: For shielded cable or other connector requirements, please consult the factory.