

FEATURES

- Heavy Industrial CE Tested
- Integral Pressure Cavity, No leakage
- Reverse Polarity Protection on Input
- Short Circuit Protection on Output
- Up to ±0.25% Accuracy
- Up to ±1% Total Error Band
- Compact Outline
- -40°C to +120°C Operating Temperature
- Weatherproof

SPECIFICATIONS

- High Accuracy
- Compact
- Variety of Pressure Ports and Electrical Configurations
- · Optional damper
- CE Compliant and Weatherproof
- · Gage,Compound
- High Accuracy

APPLICATIONS

- · Industrial Process Control and Monitoring
- · Advanced HVAC Systems
- · Refrigeration Systems
- Automotive Test Stands
- · Off-Road Vehicles
- Pumps and Compressors
- Hydraulic/Pneumatic Systems
- Agriculture Equipment
- Energy Generation and Management

STANDARD RANGES

Range (psi)	Range (Bar)	Gage	Sealed	Absolute	Compound	
0 to 100	0 to 7	•				
0 to 150	0 to 10	•				
0 to 250	0 to 16	•			•	
0 to 500	0 to 35	•			•	
0 to 1000	0 to 70	•			•	
0 to 1500	0 to 100	•			•	
0 to 2250	0 to 150	•			•	
0 to 3000	0 to 200	•			•	
0 to 5000	0 to 350	•			•	
0 to 7500	0 to 500	•			•	
0 to 10000	0 to 700	•			•	
0 to 15000	0 to 1000	•			•	●S
0 to 22000	0 to 1500	•			•	●S
0 to 35000	0 to 2500	•			•	●S

Intermediate ranges available upon request.

PERFORMANCE SPECIFICATIONS

Ambient Temperature: 25°C (unles	s otherwise	specified)			
PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Accuracy RSS of linearity,	-0.3	±0.25	0.3	%F.S. BFSL	0.0500
hysteresis, and repeatability)				%F.S. BFSL	@ 25°C
Isolation, Body to any Lead	100			ΜΩ	@250VDC
Dielectric Strength			2	mA	@500VAC, 1min
Pressure Cycles	1X10 ⁶			0~FS Cycles	
Proof Pressure	2X		20k psi	Rated	
Burst Pressure	3X		20k psi	Rated	
Long Term Stability (1 year)	-0.25		0.25	%F.S	
Total Error Band	-2	±1.0	2	%F.S	Over compensated temperature range
Compensated Temperature	0		70	°C	
Operating Temperature	-40		120	°C	
Storage Temperature	-55		+130	°C	
Load Resistance (RL)	RL > 100k			Ω	Voltage Output
Load Resistance (RL)	< (Supply V	oltage -9V) /	0.02A	Ω	Current Output
Current Consumption			10	mA	Voltage Output
Rise Time (10% to 90%)	<2ms (Volta	ige Output); <	<3ms (Current	t Output); Withou	ıt Snubber
Pressure Port Material	17-4PH or 9	SST316L			
Shock	50g, 11mse	c Half Sine S	hock per MIL-	-STD-202G, Meth	hod 213B, Condition A
Vibration	±20g, MIL-S	STD-810C, Pr	ocedure 514.	2-2, Curve L	

For custom configurations, consult factory.

Notes

Compensated Temperature: The temperature range over which the product will produce an output proportional to pressure within the specifiedperformance 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 nput 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-: $\pm 2KV/42\Omega$; L to Case: $\pm 1KV/12\Omega$; V- to V0: $\pm 1KV/42\Omega$)

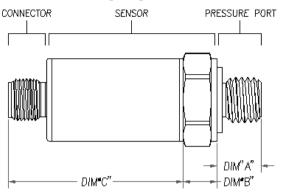
IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency

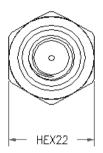
Fields (150K~80MHz, 10V level for voltage output models, 3V level for current output model)

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

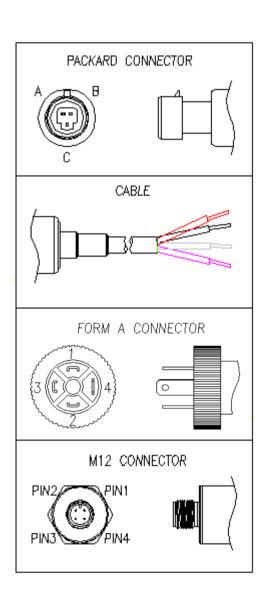
For all CE compliance tests, max allowed output deviation ±1.5 %F.S. (Just Factory Testing)

DIMENSIONS [mm]





CODE	CONNECTION TYPE	DIM C (MAX)
1	CABLE 3 FT	1.97 [50.0]
2	CABLE 10 FT	1.97 [50.0]
3	PACKARD CONNECTOR	2.10 [53.5]
4	M12 CONNECTOR	1.71 [43,5]
5	FORM A CONNECTOR	1.93 [49.0]



	PDEOOLIDE	DODT TVDE				
CODE	PRESSURE PORT TYPE					
	PORT	DIM "A"	DIM "B"			
1	G1/4 JIS B2351	0.472 [12.00]	0.3 [8.0]			
2	M20 x 1.5 mm ISO 6149-2	0.661 [16.8]	0.3 [8.0]			
3	1/4-18 NPT	0.600 [15.24]	0.3 [8.0]			
4	7/16-20UNF FEMALE SAE J513 STRAIGHT THREAD WITH INTEGRAL VALVE DEPRESSOR	0.687[17.5]	0.3 [8.0]			
5	M14 x 1.5 mm ISO 6149-2	0.472[12.0]	0.3 [8.0]			
6	1/8-27 NPT	0.390[9.91]	0.3 [8.0]			
7	M12 x 1.5 mm ISO 6149-2	0.472[12.0]	0.3 [8.0]			
8	M10 x 1.0 mm ISO 6149-2	0.374[9.5]	0.3 [8.0]			
9	G1/4 DIN 3852 FORM E GASKET DIN3869-14 NBR	0.512 [13.00]	0.3 [8.0			

WEATHERPROOF

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WEATHER-PROOF RATING					
CONNECTION P CODE					
PACKARD CONNECTOR	IP66				
CABLE	IP67				
M12 CONNECTOR	IP67				
FORM A CONNECTOR	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		
8	I ² C	3.3V or 5V		

WIRING

Current Output Wiring						
CONNECTION	+SUPPLY	-SUPPLY	-SUPPLY NC. PINS			
Packard, A	Α	В	(
Packard, B	В	Α	(С		
FORM A	1	2	3,	,4	Connector	
M12	1	2	3.	,4	1	
CABLE	RED	BLK			Pipe In Cable	
		Voltage Ou	itput Wiring			
CONNECTION	+SUPPLY	+OUTPOT	COMMON	NC. PINS	P REF VENT	
Packard, A	Α	С	В			
Packard, B	В	С	Α		Hole Through	
FORM A	1	3	2	4	Connector	
M12	1	3	2	4]	
CABLE	RED	WHT	BLK		Pipe In Cable	

CONNECTION TYPES

	CONNECTION TYPES					
CONNECTION	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				

Note: 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.

Suggested vented M12 mating connector P/N MB12FWAFF04ST-4 and MB12FWAFF04ST-3 at www.finecables.com for 0.157 "~0.236" and 0.236"~0.315" diameter cable respectively.

ORDERING INFORMATION

M53	3	4	1	0	0	9	500P	G				
Model	Output Signal	Connection Type	Port Material	Snubber	Label	Pressure Port	Pressure Range	Pressure Type				
	1:0.5 - 4.5V RATIOMETRIC	1: CABLE		0: No Snubber	0: No Lable (OEM)	1: G1/4 JIS B2351 2:M20 x 1.5 3: 1/4-18 NPT 4: 7/16-20UNF FEMALE SAE 5: M14 x 1.5 B: Bar						G: Gage
	2: 1 - 5V	2: PACKARD A	2: 17-4 Integral Screw	1: Witn Snubber	1: Adhesive Labe		3: 1/4-18 NPT	C: Compound				
	3: 4 - 20mA	3: PACKARD B	3: *SST316L Port+304 Hex		2: Laser Marking							
M53	4: 0 - 5V	4: M12	X:Customer			6: 1/8-27 NPT 7:M12 x 1.5	: 1/8-27 NPT 7:M12 x 1.5 M: Mpa					
	5: 0 - 10V	5: FORM A	SPecial			8: M10 x 1.0	P: PSI K: Kpa					
	6: 1- 6V					9: G1/4 DIN K: Kpa 3852 A: G3/8 JIS B2351						
	7: 0.5 - 4.5V											
	8: I ² C					X: Customer	X: Customer					
	X: Customer					Special						

Note: I2C parameter confirm with factory.