

Marine Pressure Transducer

Tested to MIL-T-24742(SH) and ASTM F2070



Model PX2471
4 to 20 mA Output
DC Loop Powered
15 to 10,000 psi

- ✓ Tested to the Stringent Specifications of MIL-T-24742(SH) and ASTM F2070
- ✓ Pressure Connections per MS16142
- ✓ Non-Interacting Zero and Span Adjustments
- ✓ Direct Replacement for Older MIL-P-24212C(SH) Approved Products
- ✓ Calibration Test Points Accessible for Easy System Function Verification
- ✓ Rugged Sputtered Thin Film Sensor
- ✓ State-of-the-art Electronics
- ✓ All Mating Connectors Included

Rugged Design

The Model PX2471 marine pressure transducer has been designed to meet the stringent requirements of military standard MIL-T-24742(SH) and when invoked ASTM specification F2070-00.

Applications include naval shipboard use, both surface and sub-surface vessels, as well as general maritime uses.

The Model PX2471 marine pressure transducer is available in pressure ranges from 15 to 10,000 psi. The output is a loop powered 4 to 20 mA (2 wire current) signal which is widely used for recording or control purposes.



Shown Actual Size

Direct Replaceability

The Model PX2471 has been designed to be directly interchangeable with other existing pressure transducers designed to MIL-P-24212C(SH) when used with mounting plate assembly A019852.

SPECIFICATIONS

Applications: sea water, steam, oil, fresh water, condensate, other gases

Output: 4 to 20 mA

Power Supply: 28 VDC with reverse polarity and surge protection

Loop Resistance: 0 to 250 Ω

Zero/Span Adjustments: 10% FSO

Temperature: Compensated 0 to 65°C (32 to 149° F)

Overpressure: 200% of range

Humidity: In accordance with MIL-T-24742(SH) and ASTM F 2070-00



Accuracy: $\pm 1.0\%$ of calibrated span inclusive of linearity, hysteresis and temperature effects

Repeatability: $\pm 0.5\%$ of calibrated span

Shock: In accordance with MIL-T-24742(SH) and ASTM F 2070-00

Vibration: In accordance with MIL-T-24742(SH) and ASTM F 2070-00

EMI: In accordance with MIL-T-24742(SH) and ASTM F 2070-00

Weight: 510 gm (18 oz)

Mating Connector: Cable MS3106F14S-5S, included

OMEGADYNE, INC.: Cage - 09AL6
CEC Pressure Products: Cage - 09384
Transamerica/CEC: Cage - 09384
Bell and Howell/CEC: Cage - 14028

T-Hydronics: Cage - 8W004
Thurman Hydronics: Cage - 11051
OMEGA ENGINEERING, INC.: Cage - 29907
Vanzetti Systems, Inc.: Cage - 50973

NEWPORT ELECTRONICS, INC.:
Cage - 32873

1-800-872-3963®
1-800-USA-DYNE

OMEGADYNE
CEC Pressure Products

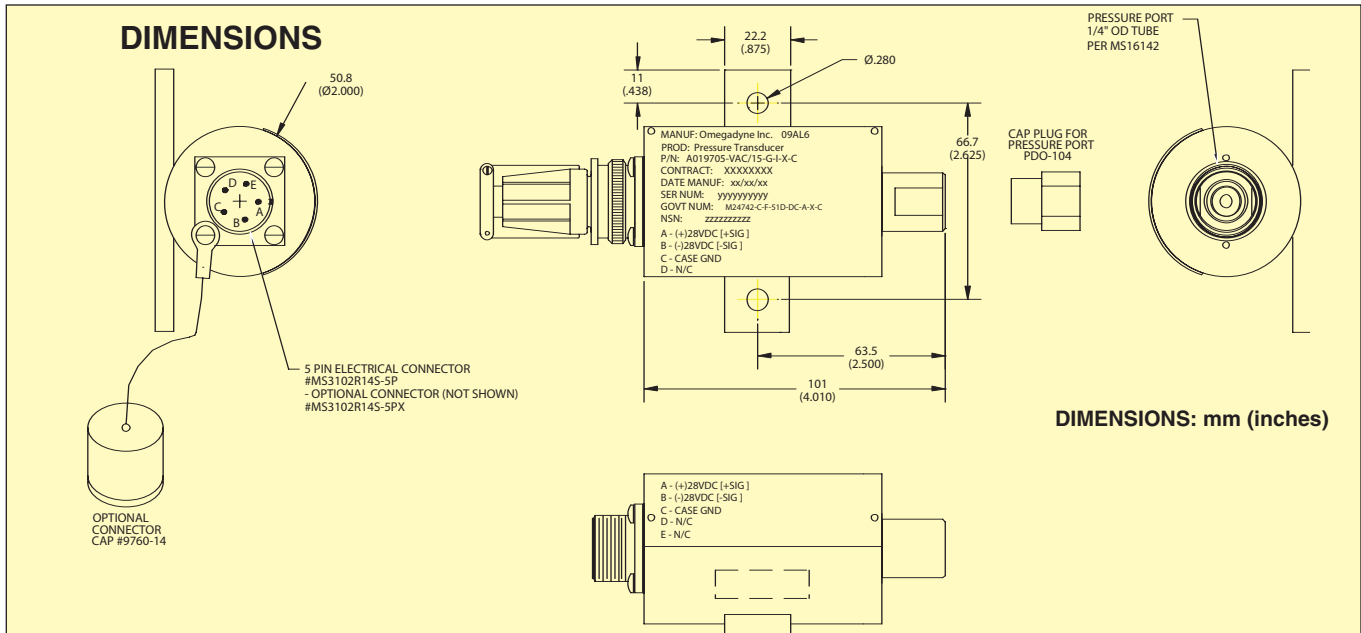


OMEGADYNE, Inc.



Marine Pressure Transmitter

Tested to MIL-T-24742(SH) and ASTM F2070



MANY MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

MS24742	R	F	32	D	DC	A
OMEGADYNE	A019705		30	G		I

**CONNECTION OPTIONS
OMEGADYNE ONLY**
SEE DRAWING A019705

TYPE	
OMEGADYNE	MIL SPEC 1, 2, 1, 1
A019705	R, G, S, A
A019705	V VACUUM
A019705	C COMPOUND

RANGE			
PRESSURE*	OMEGADYNE	MIL SPEC 1, 2, 1, 3	DESIGNATOR
0-15	15	15	31
0-30	30	30	32
0-50	50	50	
0-60	60	60	33
0-75	75	75	
0-100	100	100	34
0-150	150	150	
0-200	200	200	35
0-300	300	300	36
0-500	500	500	
0-600	600	600	37
0-1000	1000	1000	38
0-1500	1500	1500	39
0-3000	3000	3000	41
0-5000	5000	5000	
0-6000	6000	6000	42
0-10000	10000	10000	43
30"Hg-0-15	VAC-15	0-30/0-15	51
30"Hg-0-30	VAC-30	0-30/0-30	52
30"Hg-0-100	VAC-100	0-30/0-100	53
30"Hg-0-150	VAC-150	0-30/0-150	54
30"Hg-0-300	VAC-300	0-30/0-300	55
30"Hg-0-600	VAC-600	0-30/0-600	56
0-30"Hg	VAC	30	30

OUTPUT	
OMEGADYNE	MIL SPEC 1, 2, 1, 5
I (4-20 mA)	A
5T (0-5 VDC)	V

POWER SUPPLY	
OMEGADYNE	MIL SPEC 1, 2, 1, 5
DEFINED BY PART NO.	DC

APPLICATION		
DIAPHRAGM MATERIAL	OMEGADYNE	MIL SPEC 1, 2, 1, 2
INCONEL	F	F
INCONEL	S	S
INCONEL	H	H

REFERENCE	
OMEGADYNE	MIL SPEC 1, 2, 1, 4
-	A (IN HG VACUUM)
A	B (ABSOLUTE)
G	D (GAGE)
S	E (SEAL REF.)

*Optional pressure ranges available. Consult factory for details.

Ordering Example:
MS24742-R-F-32-D-DC-A,
Mil-P-24742(SH) tested pressure transducer, type R, application F, 0 to 30 psi gage pressure range powered by 28 Vdc with 4 to 20 mA output. Consult sales for current pricing.

1-800-872-3963
1-800-USA-DYNE

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CEC Pressure Products

