

DIFFERENTIAL PRESSURE TRANSDUCER (rated line pressure 5000 PSI (345 Bar))

2217 / 2417 Series

Taber's 2217 / 2417 series differential pressure transducer incorporates a reliable, wet-wet, stainless steel construction to measure static differential pressures. Engineered for high line pressures up to 5000 PSI (345 Bar), the 2217 / 2417 can handle high differential pressure overloads. Compatible with a wide variety of gas and liquid media, the bonded foil strain gage diaphragm design provides stable signal fidelity and aerospace grade components provide high accuracy. Removable pressure caps allow for easy inspection and cleaning of the pressure media cavity.

- Millivolt (mV/V), Voltage (VDC) or Current (mA) output signal
- Output short circuit protected
- All stainless steel construction - case and wetted cavity
- True differential pressure measurement
- Removable pressure caps
- Oil filled, no cryogenic temperatures
- Unidirectional and bidirectional operation
- Mechanical stops prevent damage from high differential pressure overloads

AT TABER, WE CONSISTENTLY OUTPERFORM
THE INDUSTRY STANDARDS TO GIVE YOU WHAT
YOU REALLY NEED—PRESSURE TRANSDUCERS
SPECIFICALLY ENGINEERED FOR THE MOST
EXTREME ENVIRONMENTS.



Last Revision 10/2021

The Taber Standard

Our bonded foil strain gage pressure transducers are manufactured to the highest standard of quality and engineered to meet your custom specifications.

PERFORMANCE SPECIFICATIONS

	2217 Series	2417 Series		■ Improved Static Error Band and Total Error Band** ■ Outputs up to 10 VDC
Output Signal	3 mV/V	0-5 VDC	4-20 mA	
Full Scale Output (FSO)	30 mV with 10 V input	5 VDC	16 mA	
Static Error Band	±0.4% FSO using Best Fit Straight Line (BFSL) and Root Sum Squared (RSS) Method			
Total Error Band	±2.1% FSO over entire Compensated Temperature Range (CTR)			
Differential Calibrated Pressure Range*	5 to 1000 PSI	0.9 to 1000 PSI		
Differential Overload Pressure	±1,200 PSI / ±83 Bar			
Rated Line Pressure	5,000 PSI / 345 Bar			
Minimum Burst Pressure	> 5,165 PSI / 356 Bar			

*Contact Taber for discrete pressure ranges.

**Dependent upon parameters such as pressure, temperature, and various hardware elements.

ENVIRONMENTAL SPECIFICATIONS

Compensated Temperature Range [CTR] Temperature range in which the transducer will operate within the total error band.	-23° C to +71° C (-10° F to +160° F)	<ul style="list-style-type: none"> Alternative compensated temperature range (CTR) requirements. Contact Taber Sales if Temperature Range is below -65°F.
Operating Temperature Temperature range in which the transducer will operate without degradation of performance once it returns to the CTR.	-40° C to +85° C (-40° F to +185° F)	

ELECTRICAL SPECIFICATIONS

	3 mV/V	0-5 VDC	4-20 mA	<div>■ <i>Range of resistance values</i></div> <div>■ <i>Optional Excitation Voltages</i></div> <div>■ <i>Wide selection of electrical receptacles including MIL-DTL-38999 and MIL-DTL-5015</i></div>
Strain Gage Type	Resistive Bonded Foil			
Insulation Resistance	> 10 Gohm @ 50 VDC			
Electrical Receptacle	MS3443H10B6P per MIL-DTL-26482 Series 2			
Mating Connector (not included)	MS3476-10-6S or equivalent			
Excitation Voltage	10 VDC	20-36 VDC	8-36 VDC	

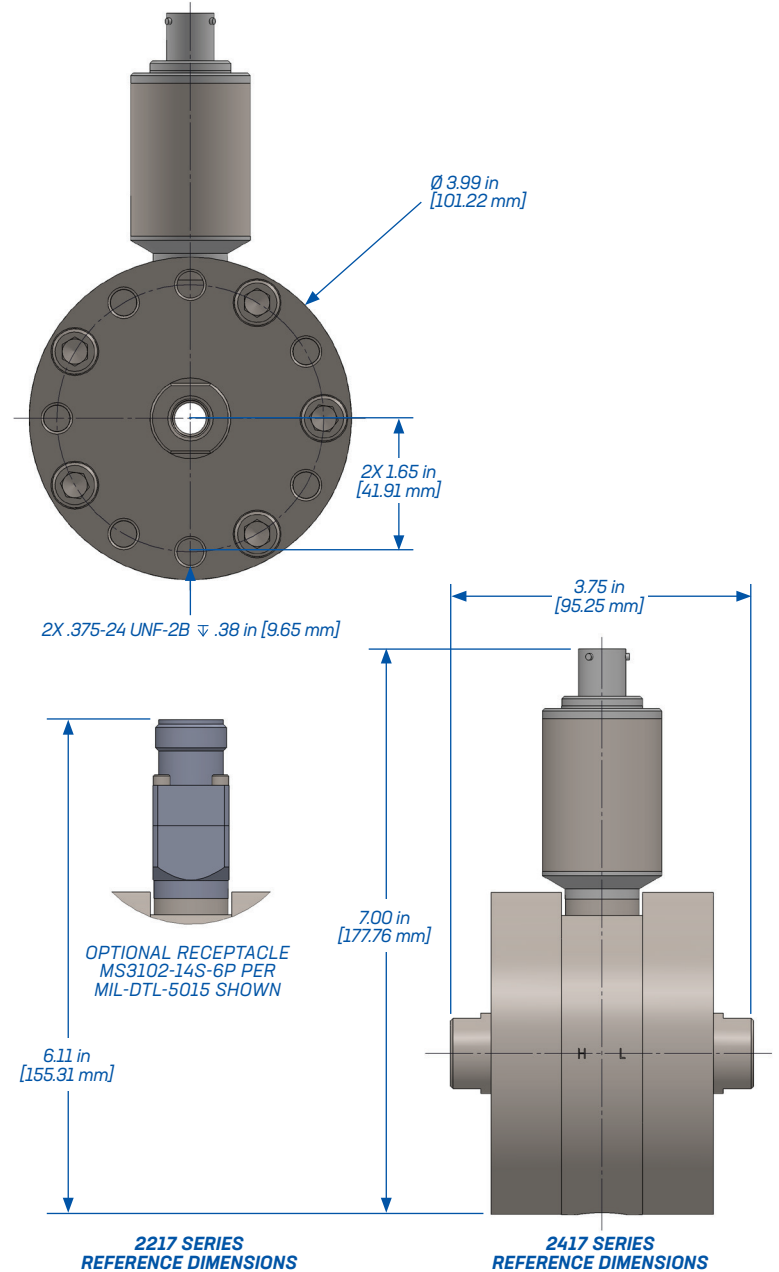
MECHANICAL SPECIFICATIONS

Diaphragm Material	347 SS	<ul style="list-style-type: none"> Variety of pressure ports based on fluid compatibility Alternative construction materials
Weight	Typical 4.3 Kg	
Case Material	316L	
Pressure Port	AS5202-04 (MS33649-4) .4375-20 UNJF-3B female thread	

OPTIONAL FEATURES

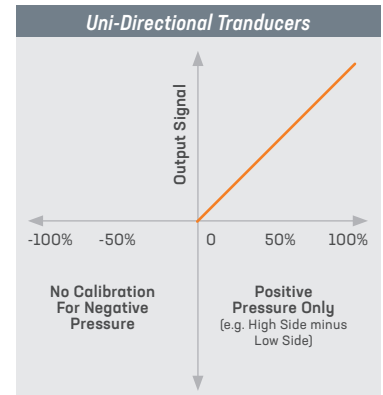
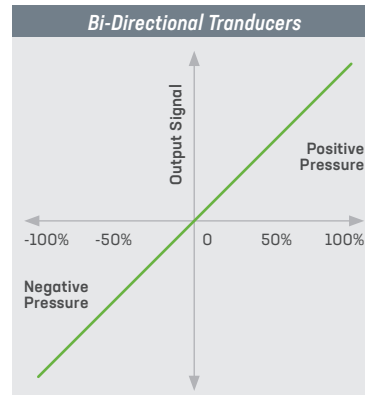
- Alternative pressure fittings.
- EMI/EMC filtering.
- Internal Shunt.
- Reference prints available for download upon request.
- Alternative electrical receptacles.

OPTIONS



2217 SERIES
REFERENCE DIMENSIONS

2417 SERIES
REFERENCE DIMENSIONS



If your pressure transducer requires a unique electrical connector, material, pressure range, temperature compensation, calibration, accuracy, cable length, or any other special requirement, please **contact a Taber Sales Engineer at 1-800-333-5300 or email sales@tabertransducer.com**.