

NON-AMPLIFIED PRESSURE TRANSDUCER

2211 Series

Taber's Model 2211 non-amplified, highly configurable pressure transducer series incorporates a rugged, hermetically sealed, stainless steel construction. Designed with passive components, the 2211 series delivers exceptional reliability in extreme environments. The bonded foil strain gage diaphragm design provides outstanding accuracy, stable signal fidelity over time and is compatible with a wide variety of gas and liquid media. Taber's 2211 series is available for broad pressure ranges with pressure reference options.

- Millivolt (mV/V) output signal
- Wide pressure range
- Small size and weight
- Output short circuit protected
- Highly immune to EMI/EMC environments
- Wide operating temperature range (including cryogenic)
- Fast response time
- Greater resistance to shock and vibration environments
- PSI, Bar or MPa in absolute, gauge or vented pressure options

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.

2211 SERIES PERFORMANCE SPECIFICATIONS

Output Signal	3 mV/V	OPTIONS <ul style="list-style-type: none"> 1.5 mV/V through 4 mV/V Output Signal Improved Static Error Band and Total Error Band* Increased Proof and Burst Pressures
Full Scale Output (FSO)	30 mV typical with 10 VDC input	
Static Error Band	± 0.25% FSO using Best Fit Straight Line (BFSL) and Root Sum Squared (RSS) Method	
Total Error Band	± 1% FSO over entire Compensated Temperature Range (CTR)	
Maximum Expected Operating Pressure (MEOP)	0-1.72 BAR through 0-2,068 BAR 0-25 PSI through 0-30,000 PSI	
Proof Pressure	1.5 times MEOP, Minimum	
Minimum Burst Pressure	3 times MEOP up to 5,000 PSI 2 times MEOP over 5,000 PSI	

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

2211 SERIES ENVIRONMENTAL SPECIFICATIONS

Compensated Temperature Range (CTR) Temperature range in which the transducer will operate within the total error band.	-34° C to +77° C (-30° F to +170° F)	OPTIONS <ul style="list-style-type: none"> High Temperatures +21° C to +204° C (+70° F to +400° F) Low temperatures -68° C to +21° C (-90° F to +70° F) Cryogenic -195° C (-320° F)
Operating Temperature Temperature range in which the transducer will operate without degradation of performance once it returns to the CTR.	-73° C to +149° C (-100° F to +300° F)	

2211 SERIES ELECTRICAL SPECIFICATIONS

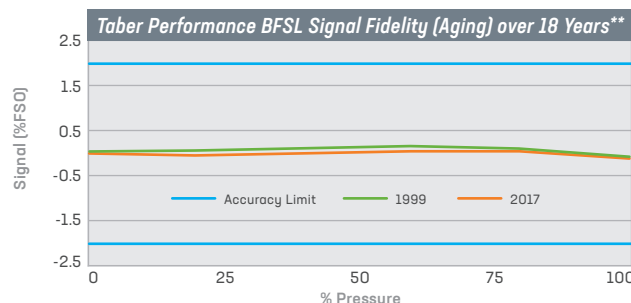
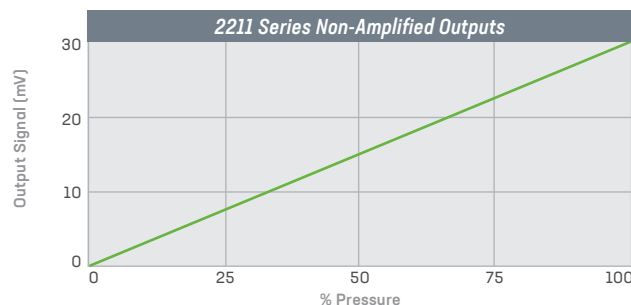
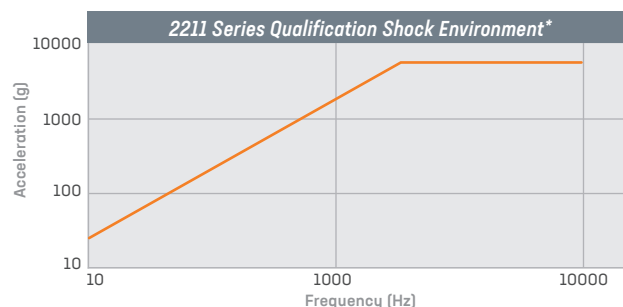
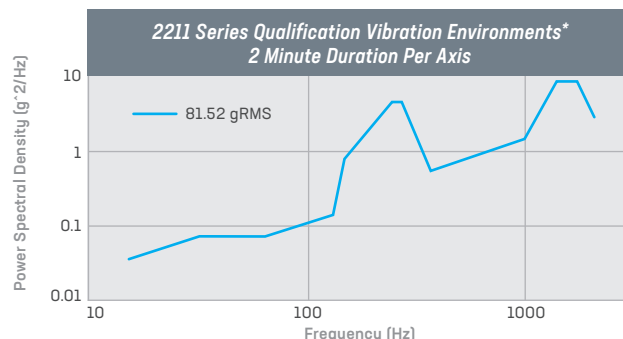
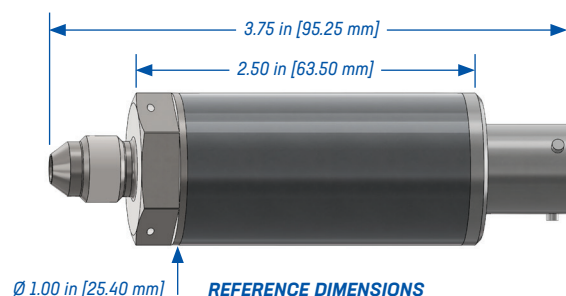
Strain Gage Type	Resistive Bonded Foil	OPTIONS <ul style="list-style-type: none"> Range of resistance values Wide selection of electrical receptacles including MIL-DTL-38999 and MIL-STD-5015
Insulation Resistance	> 100 MOhm at 50 VDC	
Electrical Connection	MS3443H10B6P per MIL-DTL-26482 Series 2	
Mating Connector (not included)	MS3476-10-6S or equivalent	
Excitation Voltage	5-15 VDC (10 VDC nominal) regulated power supply required	
Operating Current	< 30 mA at 10 VDC	

2211 SERIES MECHANICAL SPECIFICATIONS

Wetted Parts Materials	304L, 304L VAR, 316L, 347, 15-5 PH, 17-4 PH, A286	OPTIONS <ul style="list-style-type: none"> Variety of pressure ports based on fluid compatibility Alternative construction materials
Weight	Typical < 100 g	
Case Material	304, 17-4 PH	
Pressure Port	AS4395-04 (MS33656-4) .4375-20 UNJF-3A flared male thread	

OPTIONAL FEATURES

- Platinum RTD outputs: 100 Ohm, 1000 Ohm & 2000 Ohm.
- Internal or External shunt value at various percentages FSO at +21° C (+70° F).
- EMI/EMC filtering (will add length to the transducer).
- Pigtail option available.
- Reference prints available for download upon request.



*Qualification profiles do not reflect all pressure ranges.
**Same unit tested 18 years apart.

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.**