

AMPLIFIED PRESSURE TRANSDUCER

2911 Series

Taber's Model 2911 amplified, highly configurable pressure transducer series incorporates a rugged, hermetically sealed, stainless steel construction. Electronic components permit the integration of noise filtering, voltage regulation and signal conditioning. 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 2911 series is available for broad pressure ranges with pressure reference options.

- Voltage (VDC) or Current (mA) output signal
- Does not require regulated power supply
- Wide pressure range
- Output short circuit protected
- Improved accuracy options
- Optional Bulkhead filtering for EMI/EMC environments
- Optional isolated or non-isolated electronics
- Improved signal transmission over long cable distances when using Current (mA) output signal
- High reliability components available
- 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.

2911 SERIES PERFORMANCE SPECIFICATIONS

Output Signal	0-5 VDC	4-20 mA	<div>■ Improved Static Error Band and Total Error Band*</div> <div>■ Increased Proof and Burst Pressures</div> <div>■ Outputs up to 10 VDC</div>
Full Scale Output (FSO)	5 VDC	16 mA	
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)	.14 BAR through 2,068 BAR, 2 PSI through 30,000 PSI		
Proof Pressure	1.5 times MEOP, Minimum		
Minimum Burst Pressure	2 times MEOP		

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

2911 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"> Expanded temperature ranges. CTR -65° F to +250° F.
Operating Temperature Temperature range in which the transducer will operate without degradation of performance once it returns to the CTR.	-54° C to +121° C [-65° F to +250° F]	

2911 SERIES ELECTRICAL SPECIFICATIONS

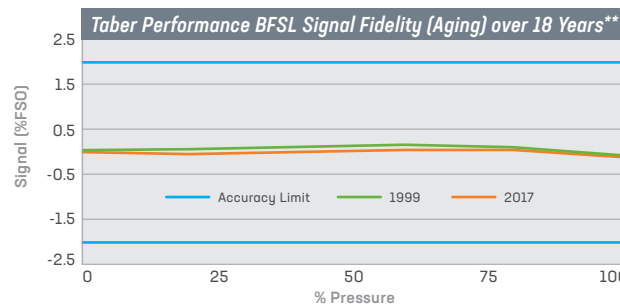
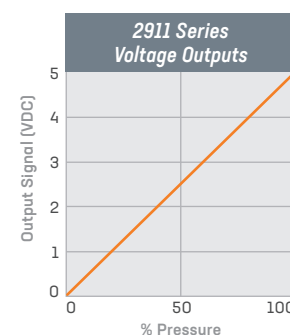
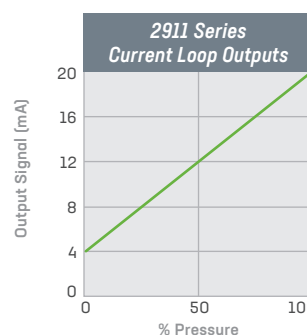
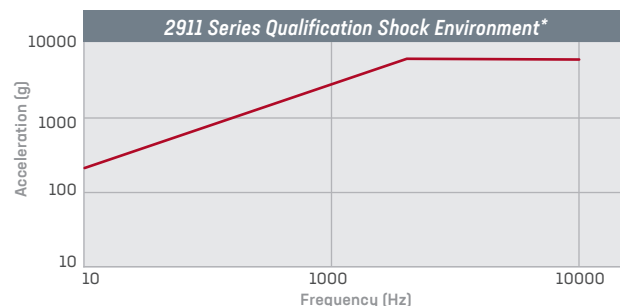
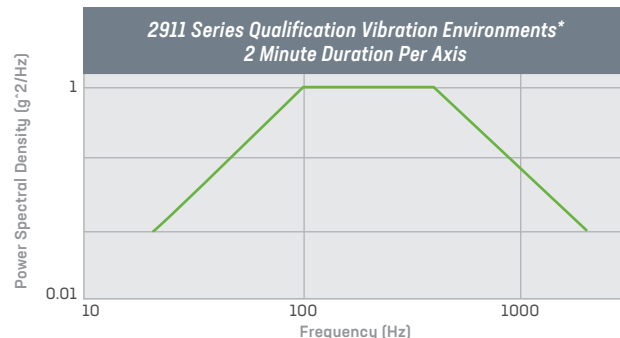
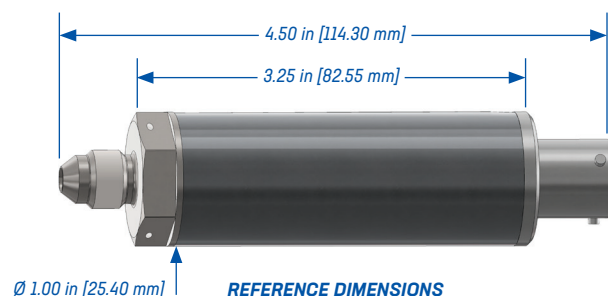
	0-5 VDC	4-20 mA	<div>■ <i>Range of resistance values</i></div> <div>■ <i>Wide selection of electrical receptacles including MIL-DTL-38999 and MIL-STD-5015</i></div> <div>■ <i>Optional Excitation Voltages</i></div>
Strain Gage Type	Resistive Bonded Foil		
Insulation Resistance	> 100 MOhm at 50 VDC		
Electrical Connection	MS3443H10B6P per MIL-DTL-26482 Series 2		
Mating Connector (not included)	MS3476-10-6S or equivalent		
Excitation Voltage	20-36 VDC (28 VDC nominal)	8-36 VDC (24 VDC nominal)	
Operating Current	< 20 mA	N/A	

2911 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 Multiple construction materials
Weight	Typical 130 g to 164 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 and 2000 Ohm.
- Internal or external shunt value at various percentages FSO at +21° C (+70° F) .
- High reliability electronic components.
- EMI/EMC filtering (will add length to the transducer).
- Mounting feet.
- 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.**