TABER® INDUSTRIES *Engineered for Quality and Reliability*

AS9100 • ISO9001 Genuine TABER™ CERTIFIED

SPACE QUALIFIED / RADIATION HARDENED PRESSURE TRANSDUCER

5411 / 5911 Series

With over 50 years of space production heritage, Taber is the industry leader when it comes to pressure measurements in space. Taber's Model 5411 / 5911 amplified pressure transducer series is qualified for space programs and is Taber's Space Transducer of choice when extreme, high reliability is required. NASA Level 1 electric, electronic and electro-mechanical (EEE) components with additional testing are incorporated in a rugged, hermetically sealed, stainless steel construction. 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 including typical propellants used in spaceflight.

- Voltage (VDC) output signal
- Does not require regulated power supply
- Wide pressure range
- Output short circuit protected
- Improved accuracy options
- Includes bulkhead filtering for EMI/EMC immunity against MIL-STD-461
- Radiation hardened EEE parts with enhanced radiation shielding
- Optional isolated or non-isolated electronics
- Includes Class S EEE components with additional testing
- PSI, Bar or MPa in absolute or gauge 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

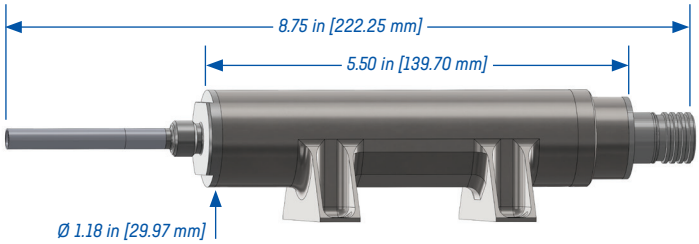
716.694.4000 **TOLL FREE** *800.333.5300*
TaberTransducer.com

MADE IN USA

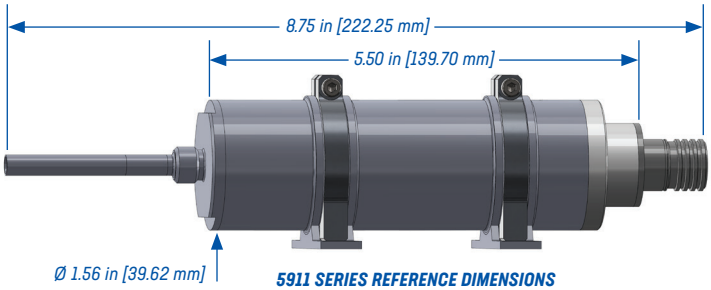
455 Bryant Street,
North Tonawanda, NY 14120

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.



5411 SERIES REFERENCE DIMENSIONS
One piece housing/mounting feet design



5911 SERIES REFERENCE DIMENSIONS

5411 / 5911 SERIES ***PERFORMANCE SPECIFICATIONS***

		OPTIONS
Output Signal	0-5 VDC	■ *Improved Static Error Band and Total Error Band**
Full Scale Output (FSO)	5 VDC	■ *Increased Proof and Burst Pressures*
Static Error Band	± 0.25% FSO using Best Fit Straight Line (BFSL) and Root Sum Squared (RSS) Method	■ *Outputs up to 10 VDC*
Total Error Band	± 0.5% FSO over entire Compensated Temperature Range (CTR)	
Maximum Expected Operating Pressure (MEOP)	0-4 BAR through 0-345 BAR 0-60 PSI through 0-5,000 PSI	
Proof Pressure	1.5 times MEOP, Minimum	
Minimum Burst Pressure	2.5 times MEOP	

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

5411 / 5911 SERIES ***ENVIRONMENTAL SPECIFICATIONS***

		OPTIONS
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)	■ *Alternate Temperature Ranges*
Operating Temperature *Temperature range in which the transducer will operate without degradation of performance once it returns to the CTR.*	-40° C to +93° C (-40° F to +200° F)	

5411 / 5911 SERIES ***ELECTRICAL SPECIFICATIONS***

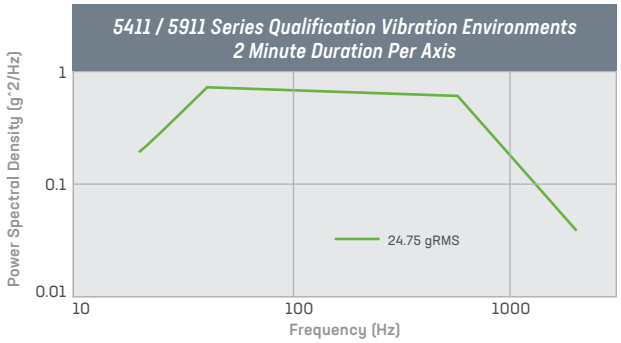
		OPTIONS
Strain Gage Type	Resistive Bonded Foil	■ *Range of resistance values*
Insulation Resistance / Isolation Resistance	› 100 Mohm at 50 VDC	■ *Wide selection of electrical receptacles including MIL-DTL-26482 and MIL-STD-5015*
Electrical Connection	D38999/27YA35PN per MIL-DTL-38999	
Mating Connector (not included)	D38999/26KA35SN or equivalent	
Excitation Voltage	23-34 VDC (28 VDC nominal)	
Operating Current	‹ 25 mA	
EEE Selection	Class S, NASA Level 1 (Class S, JANS, etc.) with additional testing	

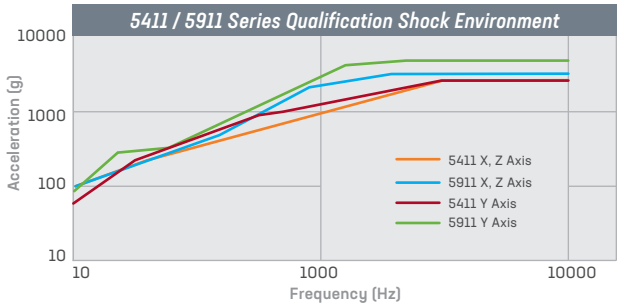
5411 / 5911 SERIES ***MECHANICAL SPECIFICATIONS***

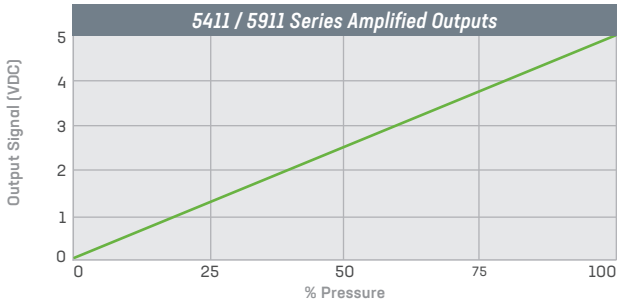
	Series 5411	Series 5911	OPTIONS
Wetted Parts Materials	304L VAR, 15-5 PH		■ *Multiple construction materials*
Weight	Typical ‹ 400 g	Typical ‹ 900 g	■ *Variety of pressure ports based on fluid compatibility*
Case Material	304L and 17-4 PH		
Pressure Port	1/4" Diameter Tube Stub with Ti transition weld		

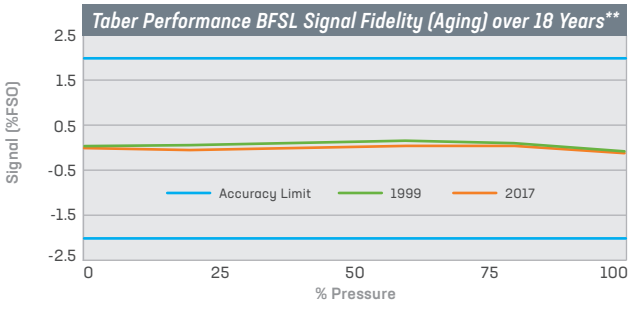
OPTIONAL FEATURES

- Platinum RTD outputs: 100 Ohm, 1000 Ohm & 2000 Ohm.
- Conformal coating.
- Pigtail option available.
- Mounting feet.
- 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.***