



Test equipment is controlled and calibrated annually to NIST standards per ISO 9001:2015, ATEX, and IECEx.



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Transducer Testing and Calibration Program

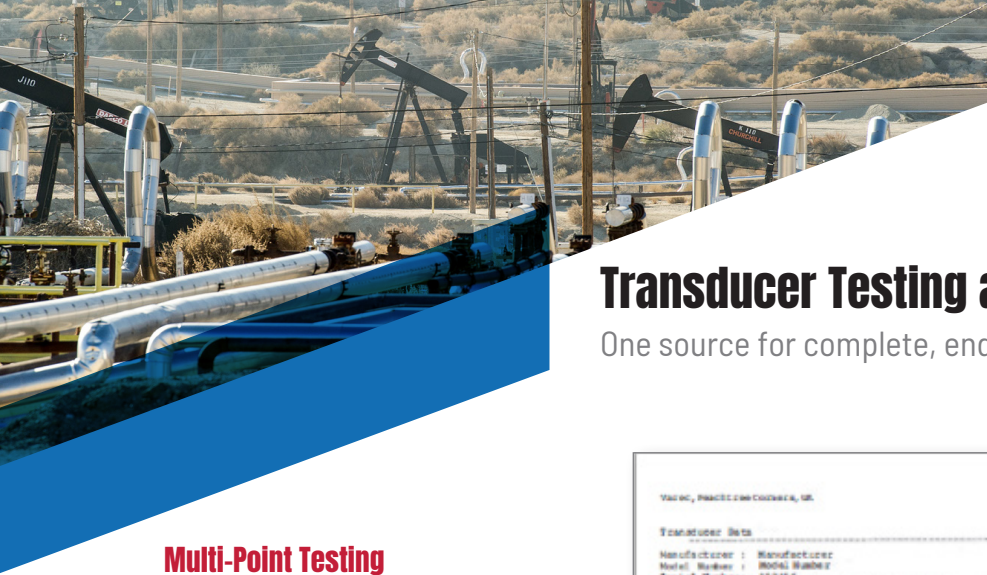
One source for complete, end-to-end validation and certification

Overview

Varec's transducer testing and calibration services provide fracking companies with trusted, high-quality maintenance and pass/fail validation at each point in the testing process. This helps support the reliability and safety of their fracking operations. Based on the manufacturer's specifications and each company's operational requirements, we certify that each unit we inspect is cleared for use back in the field.

The following is included:

- Custom identification and tagging
- 11-point testing throughout the entire pressure cycle
- Data reports
- Calibration certificates
- 24/7 access to dedicated, secure report and certificate archives



Transducer Testing and Calibration Program

One source for complete, end-to-end validation and certification

Multi-Point Testing

We utilize an 11-point test system. This provides a complete, end-to-end test across the entire pressure cycle. Data is collected at specific points during pressure testing that compares actual pressure and actual mA output values to expected values. At each point, validation occurs and logs a pass or fail based on the accepted range.

Data Points

Critical data such as, customer location, model number, serial number, test data, and test results are captured and stored in all reports. All records are retained in our secure, online repository for audit purposes.

Certification

Certificates are provided for each unit that passes all customer specific calibration criteria. The unit is documented, tagged, and certified with the calibration date, as well as the expiration date. Customers receive a copy of each certificate, which is also securely stored in our online archive repository for audit purposes.

Varec®					
Transducer Data					
Manufacturer :	Manufacturer				
Model Number :	Model Number				
Serial Number :	Serial Number				
Customer :	Customer Name, City, State (USA)				
Test Information					
Test Status :	PASS				
Test Setup :	Wingman 20				
Test Operator :	Rich Hanson				
Test Date :	01/25/2018				
Test Time :	17:15:23				
Temperature :	73				
Test Instrumentation Data					
Pressure Ref Manufacturer :	GE Druck				
Pressure Ref Model :	207544-28852-30				
Pressure Ref Serial Number :	19348501				
Pressure Ref Next Cal Date :	03/23/2018				
Output Ref Manufacturer :	Wingman Technology				
Output Ref Model :	34001A				
Output Ref Serial Number :	W75222282				
Output Ref Next Cal Date :	03/23/2018				
Supply Voltage (Vdc) :	24.0				
Measured Data					
Target	Target	Actual	Expected	Measured	Allowance
Point	Point	Point	Point	Point	Point
(PSI)	(PSI)	(PSI)	(mA)	(mA)	(mA)
0	0	0	4.000	3.933	3.800
20	4000	4002	7.202	7.149	7.002
40	8000	8000	10.400	10.358	10.200
60	12000	11997	13.598	13.569	13.398
80	16000	16000	16.800	16.783	16.600
100	20000	19997	19.998	19.995	19.798
120	24000	24005	23.200	23.195	23.000
140	28000	28005	26.400	26.395	26.200
160	32000	32008	29.600	29.595	29.400
180	36000	36005	32.800	32.795	32.600
200	40000	40005	36.000	35.995	35.800

June 04, 2018

CERTIFICATION OF CALIBRATION

The transducer listed below complies with the customer's acceptance criteria (with exceptions when noted). Varec measurements are traceable to the National Institute of Standards & Technology through certification documents on file in our facility. Varec calibration has been performed in accordance with a Quality system that complies with ISO 9001:2015.

Customer	Customer Name, City
Transducer Manufacturer	Manufacturer
Transducer Model Number	510BPST25A
Transducer Serial Number	121456
Transducer as received	In Tolerance
Transducer as returned	In Tolerance
Calibration Date	June 04, 2018
Calibration Due Date	June 04, 2019

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