

Piezoresistive Pressure Sensor Calibration

Type	4260M091	Certificate ID #	5291988-190405T1026
Serial Number	5291988	Calibration Technician	Chris Prell
Manufacturer	Kistler	Date/Time	4/5/2019 10:26:35 AM
Pressure Range	0 to 1500 PSI	Span	mV/V 9.959
Reference	Absolute	Offset	mV/V 0.990
Test Condition	New	Supply Voltage	V 10.001

Non-Linearity, Hysteresis, and Repeatability (NLHR)

P (PSI)	Output (mV/V)	BFSL Error (%)
0.0	0.9903	0.019
375.0	3.4771	-0.013
750.0	5.9666	-0.016
1125.0	8.4575	-0.004
1500.0	10.9491	0.014
750.0*	5.9666	0.000
0.0*	0.9902	-0.001

* Decreasing Pressure

Temperature Performance

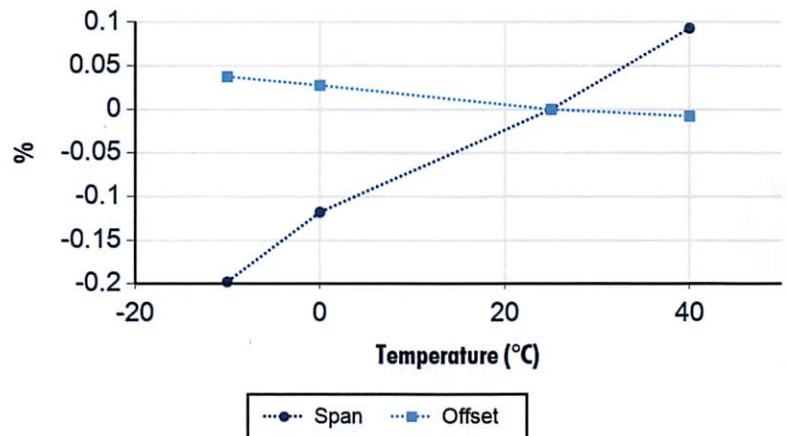
Temperature (°C)	Span Error (%)	Offset Error (%)
-10.4	-0.198	0.038
1.1	-0.118	0.028
25.0	0.000	0.000
39.6	0.093	-0.008

Error Calculation	Unit
NLHR limits are based on	% span
Temperature Performance limits are based on	% span
Span & Offset limits are based on	% span

Summary:

Environmental Conditions

Temperature	°C	22 ± 4
Relative Humidity	%	30 ± 30



Reference Equipment

Type	S/N
Agilent 34970A	MY44014699
Mensor Barometer	680141
Mensor CPC6000	610322
Mensor Module 1500 psi	832302

This sensor was calibrated per Kistler test procedure 300.002.750 using a comparison technique against a Kistler working standard. Kistler working standards are periodically calibrated against a primary standard system, which in turn is periodically recertified to the National Institute of Standards and Technology (NIST) or another recognized national standard. Measurements are derived from accepted values of natural physical constants according to the International System of Units (SI). This calibration meets or exceeds the requirements of ISO 9001:2015, ANSI/NCSL Z540-1-1994 (R2002) and is accredited to ISO/IEC 17025:2017 as verified by the ANSI-ASQ National Accreditation Board/ANAB. Refer to certificate and Scope of Accreditation AC-1117. Estimated uncertainty of this calibration is ±0.2% of pressure range for voltage output sensors or ±0.25% of pressure range for current output sensors with respect to the primary standard. Certificates are on file at Kistler and may be requested in writing. This certificate shall not be reproduced, except in full, without written approval of Kistler Instrument Corporation.