



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994

Link Engineering Company
43855 Plymouth Oaks Blvd., Plymouth, MI 48170
Warren Brown Phone: 734-453-0800

CALIBRATION

Valid to: October 21, 2010

Certificate Number: AC-1146

I. Mechanical

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Torque Sensor and Transducer Systems	Up to 1 000 lbf-in Up to 5 000 lbf-ft Up to 25 000 lbf-ft Up to 75 000 lbf-ft	0.6 lbf-in 8 lbf-ft 30 lbf-ft 181 lbf-ft	Lever Arm & Dead Weights Lever Arm, Ref Load Cell Lever Arm, Ref Load Cell Lever Arm, Ref Load Cell	WI-4.11-031
Pressure Sensor and Transducer Systems	Up to -15 psig Up to 200 psig Up to 3 000 psig Up to 5 000 psig	-0.03 psi vacuum 0.3 psi 4.0 psi 8.0 psi	Reference Transducer	WI-4.11-032
Rotational Speed Sensors and Transducers Systems	Up to 20 000 rpm	3 rpm	Hand Held Tachometer	WI-4.11-033
Force Sensor and Transducer Systems	Up to 500 lb Up to 500 lb Up to 1 000 lb Up to 5 000 lb Up to 30 000 lb	0.1 lb 0.5 lb 0.9 lb 5 lb 60 lb	Dead Weights Ref. Load Cell Ref. Load Cell Ref. Load Cell Ref. Load Cell	WI-4.11-037
Liquid Volume Sensor	Up to 25 ml	0.1 ml	Buret	WI-4.11-035
Air Velocity Sensor and Transducer Systems	(500 to 3 500) fpm	50 fpm	Anemometer	WI-4.11-039



II. Thermodynamic

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Temperature Sensor and Transducer Systems	(-40 to 2 400) °F	0.7 °F	Thermocouple Calibrator	WI-4.11-034
Relative Humidity Sensor and Transducer Systems	(10 to 95) % RH	2 % RH	RH Meter	WI-4.11-040

III. Dimensional

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Distance Sensor and Transducer Systems	Up to 1 in Up to 2 in Up to 6 in Up to 24 in	0.00006 in 0.0002 in 0.001 in 0.003 in	Digital Micrometer Gage Blocks, Micrometers and Digital Calipers	WI-4.11-036
Angle	Up to 180 ° Up to 7 °	0.3 ° 0.02 °	Digital protractor Angle gage	WI-4.11-063

IV. Electromagnetic – DC/Low Frequency

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
DC Volt Sensors and Transducers	(0 to 10) V	0.001 V	Voltmeter	WI-4.11-038

Notes:

1. Calibration and Measurement Uncertainties (Expanded Uncertainty) are based on approximately a 95% confidence interval, using a coverage of $k=2$.
2. Calibrations listed are typical y performed in the field, note extended temperature range.
3. This scope is part of and must be included with the Certificate of Accreditation No. AC-1146

Karl Greenway

Vice President

