



World Class Accreditation

The American Association for Laboratory Accreditation

## Accredited Laboratory

A2LA has accredited

**WEED INSTRUMENT CO., INC.**

doing business as

**ULTRA ELECTRONICS, NUCLEAR SENSORS & PROCESS INSTRUMENTATION**

*Round Rock, TX*

for technical competence in the field of

### Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).



Presented this 23<sup>rd</sup> day of September 2009.

A handwritten signature in black ink, appearing to read "Peter Mlynek", written over a horizontal line.

President & CEO  
For the Accreditation Council  
Certificate Number 2931.01  
Valid to December 31, 2011

*For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.*



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

WEED INSTRUMENT CO., INC  
 doing business as  
 ULTRA ELECTRONICS, NUCLEAR SENSORS & PROCESS INSTRUMENTATION  
 PO Box 300  
 Round Rock, TX 78680  
 Alan Fogle Phone: 512 434 2845

CALIBRATION

Valid To: December 31, 2011

Certificate Number: 2931.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Thermodynamics

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Temperature, RTD's – Measure	-196 °C(Liquid Nitrogen) (-80 to 0) °C 0 °C (Ice Point) (0 to 300) °C (300 to 400) °C (400 to 550) °C (550 to 660) °C	0.27 °C 0.10 °C 0.01 °C 0.02 °C 0.03 °C 0.04 °C 0.44 °C	SPRT
Temperature, Thermocouple – Measure  Type E	-196 °C (Liquid Nitrogen) (-80 to 0) °C (0 to 550) °C (550 to 700) °C	0.36 °C 0.20 °C 0.33 °C 0.58 °C	SPRT

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Temperature, Thermocouple – Measure (cont)			
Type J	(0 to 550) °C (550 to 700) °C	0.35 °C 0.58 °C	SPRT
Type K	-196 °C (Liquid Nitrogen) (-80 to 0) °C (0 to 550) °C (550 to 700) °C	0.41 °C 0.27 °C 0.38 °C 0.60 °C	
Type T	-196 °C (Liquid Nitrogen) (-80 to -60) °C (0 to 300) °C (300 to 550) °C (550 to 700) °C	0.48 °C 0.37 °C 0.38 °C 0.46 °C 0.78 °C	

<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.