

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc., has assessed the Laboratory of:

***A1 Calibration Laboratory S.A.
500 m east of Garden Court, Unit #2 Rio Segundo
Alajuela, Costa Rica***

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025: 2005

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-FLAC-IAF Communiqué dated January 2009):

***Laboratory and Field Calibration of Dimensional, Mechanical
and Electrical Measuring Devices
(As detailed in the supplement)***

Such testing and/or calibration services shall only be offered at or from the address given above. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

The validity of this certificate is mandated through ongoing surveillance.

Tracy Szerszen
President/Operations Manager

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
26555 Evergreen, Suite 1325
Southfield, Michigan 48076

Initial Accreditation Date:

April 09, 2008

Issue Date:

April 09, 2008

Revision Date:

January 26, 2009

Expiration Date:

April 08, 2010

Accreditation No.

59381

Certificate No.

L08-17-R1

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Certificate of Accreditation: Supplement

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Alajuela, Costa Rica

Accreditation is granted to this facility to perform the following calibrations:

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Micrometers	0 mm to 101.6 mm	0.002 9 mm	

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Pressure Gages and Transducers	137 kPa to 103 421 MPa	0.015 % of reading	
Torque	1.13 N·m to 2 710 N·m	0.23 % of reading	

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
AC Voltage @ 9.5 Hz	0 mV to 30 mV	3.0E-005 V	
	30 mV to 300 mV	3.0E-004 V	
	0.3 V to 3.0 V	3.0E-003 V	
	3.0 V to 30 V	3.0E-002 V	
AC Voltage @ 10 Hz	30 mV to 300 mV	5.0E-005 V	
	0.3 V to 3.0 V	4.7E-004 V	
	3.0 V to 30 V	4.7E-003 V	

1. This laboratory offers commercial calibration services.
2. "Best uncertainty" 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 of nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95% level of confidence, usually using a coverage factor of $k = 2$. The best uncertainty of a specific calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer's device, to the environment (of the calibration is performed in the field) and to influences from the circumstances of the specific calibration. Where ranges are not specified, the best measurement uncertainty stated is for the cardinal points only.
3. Remarks: This column shall include pertinent information about the calibration of the Measured Instrument or parameter. The information should include the type of standards used and any pertinent information about the measurement method. This column is not to be used for commercial advertisement of laboratory services.