

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***AES Scales, LLC
12601 Eckel Road
Perrysburg, OH 43551***

(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 On-Site Weighing Device, Mechanical and Dimensional Calibration
(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:
November 19, 2003

Accreditation No.
59052

Issue Date:
July 17, 2009

Certificate No.
L09-76

Expiration Date:
July 18, 2011

Page No.
Page 1 of 3

Certificate of Accreditation: Supplement

AES Scales, LLC
12601 Eckel Road
Perrysburg, OH 43551

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

Mass, Force, and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Balances	1 mg to 5 000 g	$(1.15 \times 10^{-1} + 9.50 \times 10^{-5} \text{wt}) \text{ g}$	Class F Weights NIST HB 44
Bench Scales Counting Scales	0.5 lb to 500 lb	$(1.15 \times 10^{-1} + 2.80 \times 10^{-4} \text{wt}) \text{ lb}$	
Floor Scales	1 lb to 20 000 lb	$(1.16 + 7.20 \times 10^{-5} \text{wt}) \text{ lb}$	
Truck Scales Hopper Scales Crane Scales Large Capacity Scales Rail Scales	10 lb to 100 000 lb	$(23.1 + 2.80 \times 10^{-5} \text{wt}) \text{ lb}$	

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Torque	2 N·m to 40 N·m	1.4 % of reading	Norbar Pro-Test Transducer
	8 N·m to 40 N·m	1.4 % of reading	
	30 N·m to 1 500 N·m	1.5 % of reading	
	300 N·m to 1 500 N·m	1.3 % of reading	

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Height Gages	0 cm to 30.48 cm (0 in to 12 in)	13.46 μm (530 μin)	Mitutoyo Height Gage
	30.48 cm to 60.96 cm (12 in to 24 in)	15.11 μm (590 μin)	Mitutoyo Height Gage and Master Gage Block
Micrometers	0 cm to 15.24 cm (0 in to 6 in)	2.2 μm (86 μin)	Master Gage Blocks
	15.24 cm to 30.48 cm (6 in to 12 in)	3.2 μm (130 μin)	
Gage Blocks	0.127 cm to 10.16 cm (0.05 in to 4 in)	0.14 μm (5.2 μin)	Master Gage Blocks
Dial Indicators	0.001 cm to 1.27 cm (0.000 5 in to 0.5 in)	0.36 μm (14 μin)	Master Gage Blocks
Dial Calipers	0 cm to 60.96 cm (0 in to 24 in)	17 μm (670 μin)	Master Gage Blocks

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