



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

LUDECA, Inc.

1425 NW 88 Avenue, Doral, FL 33172

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

ISO/IEC 17025:2017 & Meets Requirements of ANSI/NCSL Z540.3-2006

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Dimensional, Electrical, Time & Frequency Calibration
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. 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:

Tracy Szerszen
President

Initial Accreditation Date:

December 29, 2017

Issue Date:

October 25, 2023

Expiration Date:

November 30, 2025

Revision Date:

July 30, 2024

Accreditation No.:

92835

Certificate No.:

L23-786-R1

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

LUDECA, Inc.

1425 NW 88 Avenue, Doral, FL 33172
Contact Name: Bernd Seidenthal Phone: 305-591-8935

Accreditation is granted to the facility to perform the following calibration:

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Laser Single Beam (Rotalign, RS5, Sensalign, etc) ^F	Up to 20 mm	0.007 6 mm	Gage Block, CaliChek F	LUD1015-01
Laser – Dual Beam (Easy-Laser, etc) ^F	Up to 30 mm	0.004 5 mm	Micrometer, Scale Factor Fixture	LUDWI-2501-00
Laser – Reflected Beam (Optalign, Masterlign, etc) ^F	Up to 20 mm	0.071 % RDG + 0.005 mm	Gage Block, CaliChek T	LUDC1012-00
Inclinometer ^F	Up to 360 °	0.71°	CaliChek F Angle Block	LUDC1015-01
Equipment to measure distance on laser dual beam (Easy-Laser) ^F	Up to 30 mm	0.004 5 mm	Auto Rig Detector Calibration	LUDC3000-1

Time & Frequency

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Vibration Test – Accelerometers (Single Point) ^F	159 Hz	0.12 Hz	Agilent 34410A, MMF VC20	LUDC1017-00

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Vibration Analyzer – Simulation (Vibxpert, etc) ^F	Up to 30 V	0.004 2 V	Agilent 34410A Agilent 33220A	LUDC1019-00

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.



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Accreditation is granted to the facility to perform the following calibration:

3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location
4. % RDG represent percentage of reading

