

## 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, Frequency, and Electrical 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

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084 Initial Accreditation Date: December 29, 2017

Date: Issue Date: 7 October 25, 2023 Expiration Date:

November 30, 2025

Accreditation No.: 92835 Certificate No.: L23-786

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: <u>www.pjlabs.com</u>



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 calibrations:

Dimensional			
MEASURED INSTRUMENT, OUANTITY OF CAUCE	RANGE OR NOMINAL DEVICE SIZE AS	CALIBRATION AND MEASUREMENT	CALIBRATION
QUANTITI ON GAUGE	APPROPRIATE	AS AN UNCERTAINTY (±)	AND REFERENCE
			STANDARDS USED
Laser Single Beam	Up to 20 mm	0.00 51 % of Reading + 0.00 66 mm	Gage Block,
(Rotalign, RS5, Sensalign,			Calibration Plate
etc) <sup>F</sup>			LUD1015-01
Laser – Dual Beam	Up to 30 mm	0.000 17 % of Reading + 0.004 5 mm	Micrometer,
(Easy-Laser, etc) <sup>F</sup>	_		Calibration Plate
			LUDWI-2501-00
Laser – Reflected Beam	Up to 20 mm	0.071% of Reading + 0.005 mm	Gage Block,
(Optalign, Masterlign, etc) <sup>F</sup>	-		Calibration Plate
			LUDC1012-00
Inclinometer <sup>F</sup>	0 ° to 360 °	0.71°	CaliChek F®, Angle
			Block
			LUDC1015-01
Equipment to measure	Up to 30 mm	0.000 17 % of Reading + 0.004 5 mm	Auto Rig Detector
distance on laser dual beam	-		Calibration
(Easy-Laser) <sup>F</sup>			LUDC3000-1

### Time & Frequency

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Vibration Test – Accelerometers (Single Point) <sup>F</sup>	159 Hz	0.059 % of Reading + 0.025 Hz	Agilent 34410A, Vibration System shaker, Master Accelerometer LUDC1017-00

### Electrical

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MEASURED INSTRUMENT,	RANGE OR NOMINAL	CALIBRATION AND MEASUREMENT	CALIBRATION
QUANTITY OR GAUGE	DEVICE SIZE AS	CAPABILITY EXPRESSED	EQUIPMENT
-	APPROPRIATE	AS AN UNCERTAINTY (±)	AND REFERENCE
			STANDARDS USED
Vibration Analyzer –	Up to 30 V	0.000 005 3 % of Reading + 0.004 2 V	Agilent 34410A
Simulation			Agilent 33220A
(Vibxpert, etc) <sup>F</sup>			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.



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

- 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.
- 3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this calibration at its fixed location.

