

International Accreditation Service, Inc.

CERTIFICATE OF ACCREDITATION

This is to signify that

ERGONOMICS, INC.

324 SECOND STREET PIKE, UNIT 3
SOUTHAMPTON, PENNSYLVANIA 18966

Calibration Laboratory CL-116

has demonstrated compliance with the ANS/ISO/IEC Standard 17025:2005, *General criteria for the competence of testing and calibration laboratories*, and has been accredited commencing November 1, 2007, for the calibration discipline(s) listed in the approved scope of accreditation. The laboratory meets requirements of ANSI/NCSL Z540-1-1994, Part 1, and the IAS program requirements in the field of calibration.



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President

(see attached scope of accreditation for measurement area or type of test, range or quantity, best measurement capability, technique reference, standard equipment or unique conditions)

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation, revocation, or expiration of accreditation. See the IAS *Accreditation Listings* on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 699-0541. Print Date: 11/26/2007

International Accreditation Service, Inc.

SCOPE OF ACCREDITATION

Ergonomics, Inc. CL-116

Ergonomics, Inc.
324 Second Street Pike, Unit 3
Southampton, PA 18966

David L. George, P.E.
Director of Engineering
(215) 357-5124

MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY ¹ (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Dimensional</i> Length Digital caliper, 0.02mm resolution	0 to 100mm 0 to 150 mm 0 to 200mm 0 to 300 mm	10.5 microns 10.7 microns 11.2 microns 11.8 microns	Use of step gage block
Mass	up to 1.2 kg >1.2 to 10 kg	0.09 Grams 0.66 Grams	
<i>Mechanical</i> Angle	0° to 90°/5 minutes	6 minutes	Mechanical Bevel Protractor

November 1, 2007
Commencement Date


C. P. Ramani, P.E.
President

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MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY ¹ (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Electrical – DC/LF</i> Field strength Magnetic	15 Hz to 20kHz >20kHz to 60kHz >60kHz to 120kHz	0.22% of range 0.46% of range 0.50% of range	Requires use of a Helmholtz Coil Requires use of a Helmholtz Coil Requires use of a Helmholtz Coil
Electrical	20Hz to 120kHz >120kHz to 300kHz DC	0.34% of range 0.64% of range 0.60% of reading	Requires use of a Helmholtz Coil Requires use of a Helmholtz Coil DC is considered Static Field

¹ "Best Measurement Capability" 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 of nearly ideal measuring instruments. Best Measurement Capabilities are expressed as uncertainties at approximately the 95% level of confidence, usually using a coverage factor of $k=2$. The measurement uncertainty of a specific calibration performed by the laboratory may be greater than the least uncertainty due to the behavior of the customer's device, to the environment (if the calibration is performed in the field), and to influences from the circumstances of the specific calibration.

NOTE: Calibration parameters are performed primarily on-site at customer locations. The uncertainty of scale/balance calibration is highly dependent on local conditions, such as scale resolution and sensitivity, scale cleanliness, local gravity, temperature and humidity, dust, vibration, etc.; therefore, any statement of uncertainty is misleading. The class of the best weights used by the laboratory is shown in the Technique column. Use of weights in combination, whether in the same class or different classes, will increase measurement uncertainty resulting from the additive effect of weight tolerances, as defined in ASTM E 617.

November 1, 2007
Commencement Date


C. P. Ramani, P.E.
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