

International Accreditation Service  
**CERTIFICATE OF ACCREDITATION**

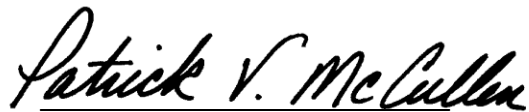
*This is to signify that*

**ORANGE COUNTY CALIBRATION SERVICE, INC.**

1702 EAST SUNVIEW DRIVE  
ORANGE, CALIFORNIA 92865

Calibration Laboratory CL-113  
(Revised August 24, 2011)

has met the requirements of the IAS Accreditation Criteria for Calibration Laboratories (AC204), 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 January 6, 2011, for the calibration discipline(s) listed in the approved scope of accreditation. The laboratory meets 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 fields of calibration and accredited calibration methods)*

Print Date: 08/24/2011

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

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# International Accreditation Service

## SCOPE OF ACCREDITATION

Orange County Calibration Service, Inc., CL-113  
(Revised August 24, 2011)

Orange County Calibration Service, Inc.  
1702 E Sunview Dr.  
Orange, CA 92865

Ricky Goure  
Owner  
(714) 637-5100

MEASUREMENT AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY <sup>1</sup> (CMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Mechanical</i> Force Load cells Compression  Tension	Up to 100lbf Up to 750,000lbf  Up to 150,000lbf	0.25% IV 1% IV  1% IV	ASTM Standard E 74, Class one weights ASTM Standard E 4, Follow the force method ASTM Standard E 4, Follow the force method
Rockwell hardness	HRA Scale HRB Scale HRC Scale HR15TW Scale HR30TW Scale HR45TW Scale	1.8 HRA 1.8 HRBW 1.8 HRC 1.8 HR15TW 1.8 HR30TW 1.8 HR45TW	ASTM Standard E 18, indirect verification

January 6, 2011  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President



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<i>Mechanical (continued)</i> Rockwell hardness	HR15N Scale HR30N Scale HR45N Scale HRLW Scale HRMW Scale HREW Scale	1.8 HR15N 1.8 HR30N 1.8 HR45N 1.8 HRLW 1.8 HRMW 1.8 HREW	ASTM Standard E 18, indirect verification
Scale and balance	Up to 100lbs	See Note	Class one weights
Calipers	Up to 6"/0.001" >6 to 12"/0.0005"	650μ inches 1535 μ inches	Grade 0 gage blocks
Spring checker, LVDT, Linear transducers	Up to 20"/0.0001"	2653 μ inches	Grade 0 gage blocks, (16" and 20" grade AS1)

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<i>Mechanical (continued)</i>			
Micrometers	0-1"/0.0001" 2"-3"/0.0001"	116μ inches 150 μ inches	Grade 0 gage blocks Grade 0 gage blocks
Dial indicators – Mechanical Dial indicators – Electronic	0-1"/0.001" 0-4"/0.0001"	1200 μ inches 2100 μ inches	Grade 0 gage blocks Grade 0 gage blocks
Extensometer/Deflectometer/ Compressometer	Up to 1"	1% of reading	ASTM Standard E 83, Comparison to Class B-1 Extensometer

<sup>1</sup>“Calibration 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. Calibration 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.

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