



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005  
& ANSI/NCSL Z540-1-1994

C & C TECHNOLOGIES, INC.  
 2455 Reliance Ave.  
 Apex, NC 27539  
 Travis Clem Phone: 919 362 1116

CALIBRATION

Valid To: August 31, 2019

Certificate Number: 1345.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Mechanical

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Tachometer <sup>3</sup>	(5 to 99.9) rpm (100 to 999) rpm (1000 to 9999) rpm (10 000 to 50 000) rpm (50 000 to 99 999) rpm	0.6 rpm 1.2 rpm 12 rpm 32 rpm 110 rpm	Extech 461825
Pressure – Measure (Pneumatic)	(5 to 100) psig	0.7 psi	Ashcroft grade 3A gauge

II. Thermodynamics

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Relative Humidity <sup>3</sup> , Fixed Points [Tests Performed in a Calibrated Environmental Chamber]	11 % RH 33 % RH 75 % RH 97 % RH	1.4 % RH 1.3 % RH 1.7 % RH 2.2 % RH	By direct comparison using Vaisala salts, no evaluation of tested product or failure analysis
Temperature <sup>3</sup> [Tests Performed in a Calibrated Environmental Chamber]	(-70 to 300) °C	0.1 °C	Agilent 34970A w/ RTD, no evaluation of tested product or failure analysis

### III. Time & Frequency

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Calibrating Stopwatches Using NIST Phone Line	5 s to 24 hr	0.5 s	Extech Instruments Stopwatch C-510

<sup>1</sup> This laboratory offers commercial calibration service and field calibration service.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) 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 nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

<sup>3</sup> Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.



# Accredited Laboratory

A2LA has accredited

## C & C TECHNOLOGIES, INC.

Apex, NC

for technical competence in the field of

### Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-

IAF Communiqué dated 8 January 2009).



Presented this 2<sup>nd</sup> day of October 2017.

President and CEO  
For the Accreditation Council  
Certificate Number 1345.01  
Valid to August 31, 2019

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.