



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## *Certificate of Accreditation*

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

***BB Control, Inc.  
325 North Broadway Street  
Spencerville, OH 45887***

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

***ISO/IEC 17025:2005***

*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 January 2009):*

***Calibration of Electrical Temperature Simulation and Thermodynamic Devices  
(As detailed in the supplement)***

*Such testing and/or calibration services shall only be offered at or from the address given above. 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:

*The validity of this certificate is mandated through ongoing surveillance.*

Tracy Szerszen  
President/Operations Manager

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
26555 Evergreen, Suite 1325  
Southfield, Michigan 48076

*Initial Accreditation Date:*  
December 21, 2009

*Accreditation No.:*  
66517

*Issue Date:*  
December 21, 2009

*Certificate No.:*  
L09-126

*Expiration Date:*  
December 20, 2011

*Page No.:*  
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# Certificate of Accreditation: Supplement

**BB Control, Inc.**  
 325 North Broadway Street  
 Spencerville, OH 45887

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

## Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	REMARKS
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	454 °F to 450 °F (270 °C to 230 °C)	0.54 °F + 0.058 % of reading (0.3 °C + 0.058 % of reading)	Leeds & Northrup Model: 8686 Electrical Simulation of Thermocouple Output
	450 °F to 752 °F (230 °C to 400 °C)	1.66 °F + 0.058 % of reading (0.92 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	346 °F to 400 °F (210 °C to 250 °C)	0.5 °F + 0.058 % of reading (0.27 °C + 0.058 % of reading)	
	400 °F to 2 192 °F (205 °C to 1 200 °C)	1.53 °F + 0.058 % of reading (0.85 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	454 °F to 334 °F (270 °C to 167 °C)	0.42 °F + 0.058 % of reading (0.23 °C + 0.058 % of reading)	
	334 °F to 1 832 °F (167 °C to 1 000 °C)	1.33 °F + 0.058 % of reading (0.73 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	454 °F to 520 °F (270 °C to 271 °C)	0.61 °F + 0.058 % of reading (0.33 °C + 0.058 % of reading)	
	520 °F to 2 501 °F (271 °C to 1 372 °C)	1.88 °F + 0.058 % of reading (1.04 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	454 °F to 660 °F (270 °C to 348 °C)	0.8 °F + 0.058 % of reading (0.44 °C + 0.058 % of reading)	
	660 °F to 2 372 °F (348 °C to 1 300 °C)	2.43 °F + 0.058 % of reading (1.35 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	58 °F to 2 060 °F (50 °C to 1 127 °C)	2.22 °F + 0.058 % of reading (1.23 °C + 0.058 % of reading)	
	2 060 °F to 3 214 °F (1 127 °C to 1 768 °C)	6.66 °F + 0.058 % of reading (3.7 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	58 °F to 1 910 °F (50 °C to 1 044 °C)	2.22 °F + 0.058 % of reading (1.23 °C + 0.058 % of reading)	
	1 910 °F to 3 214 °F (1 044 °C to 1 768 °C)	6.66 °F + 0.058 % of reading (3.7 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	32 °F to 2 883 °F (0 °C to 1 584 °C)	3.33 °F + 0.058 % of reading (1.85 °C + 0.058 % of reading)	
	2 883 °F to 3 308 °F (1 584 °C to 1 820 °C)	10 °F + 0.058 % of reading (5.19 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	32 °F to 1 220 °F (0 °C to 660 °C)	1.66 °F + 0.058 % of reading (0.92 °C + 0.058 % of reading)	
	1 220 °F to 4 190 °F (660 °C to 2 310 °C)	5 °F + 0.058 % of reading (2.77 °C + 0.058 % of reading)	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type NI-NI-Moly	0 °F to 660 ° (18 °C to 349 °C)	0.52 °F + 0.058 % of reading (0.28 °C + 0.058 % of reading)	
	660 °F to 2 500 °F (349 °C to 1 371 °C)	1.61 °F + 0.058 % of reading (0.89 °C + 0.058 % of reading)	



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## Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	REMARKS
Uniformity Survey	150 °F to 200 °F	1.7 °F	Honeywell Recorder with T Thermocouple AMS 2750D
	0 °F to 2 400 °F	4.1 °F	Honeywell Recorder with K Thermocouple per AMS 2750D

1. Remarks: This column shall include pertinent information about the calibration of the Measured Instrument or parameter. The information should include the type of standards used and any pertinent information about the measurement method. This column is not to be used for commercial advertisement of laboratory services.
2. This laboratory offers commercial calibration service and on-site calibration service.
3. Best measurement capabilities represent expanded uncertainties at approximately the 95 % confidence level using a coverage factor of  $k=2$ .
4. Millivolt generate/source using ITS-90 Temperature Tables.