

# Quality & Calibration Report

131 Business Center Drive, A-3  
Ormond Beach, FL 32174  
TEL: 877.678.4259 | 386.310.4933 M-F 9-6pm EST  
FAX: 866.422.2356  
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## Certificate of Calibration and Testing

Date:   
Contact:   
Company: 

Document/Procedure: QACC-1.1-CM17  
Invoice: # 4140  
Page: 1 of 3

Item	Qty	Serial Number	Calibration Gas	Reading	Temp & % RH
CM-0017 0-30% CO2	1	03-0E-2E-31	Nitrogen 100%	( ± 0.015%) 0 ppm ( ± 10 ppm )	-10 °C - 50 °C 0 % - 90 %
			P/N 221L-114 Date: JUL-13 LOT#HAN-114-12		
			CO2 4.5%	( ± 0.015%) 4.50% CO2 ( ± 0.25 % )	-10 °C - 50 °C 0 % - 90 %
			P/N 221L-35-4.5 Date: JUN-12 LOT#GAM-35-4.5-1		
			CO2 15.0%	( ± 0.015%) 15.00% CO2 ( ± 0.25 % )	-10 °C - 50 °C 0 % - 90 %
			P/N 221L-35-15 Date: FEB 12 LOT#CAM-35-15-3		

QA Inspector



We are committed to providing a quality product.  
This instruments has undergone rigorous testing throughout its manufacture.  
This instrument was assembled in USA, and has been factory Inspected , Tested & Calibrated  
in accordance with the conditions and requirements of our registered Quality System,  
Operating Standards & Sales Agreements.  
All calibration gases are traceable to industries standards.

*NOTE: This certification is valid for 180 days from calibration date.*

**Calibrations Chart**

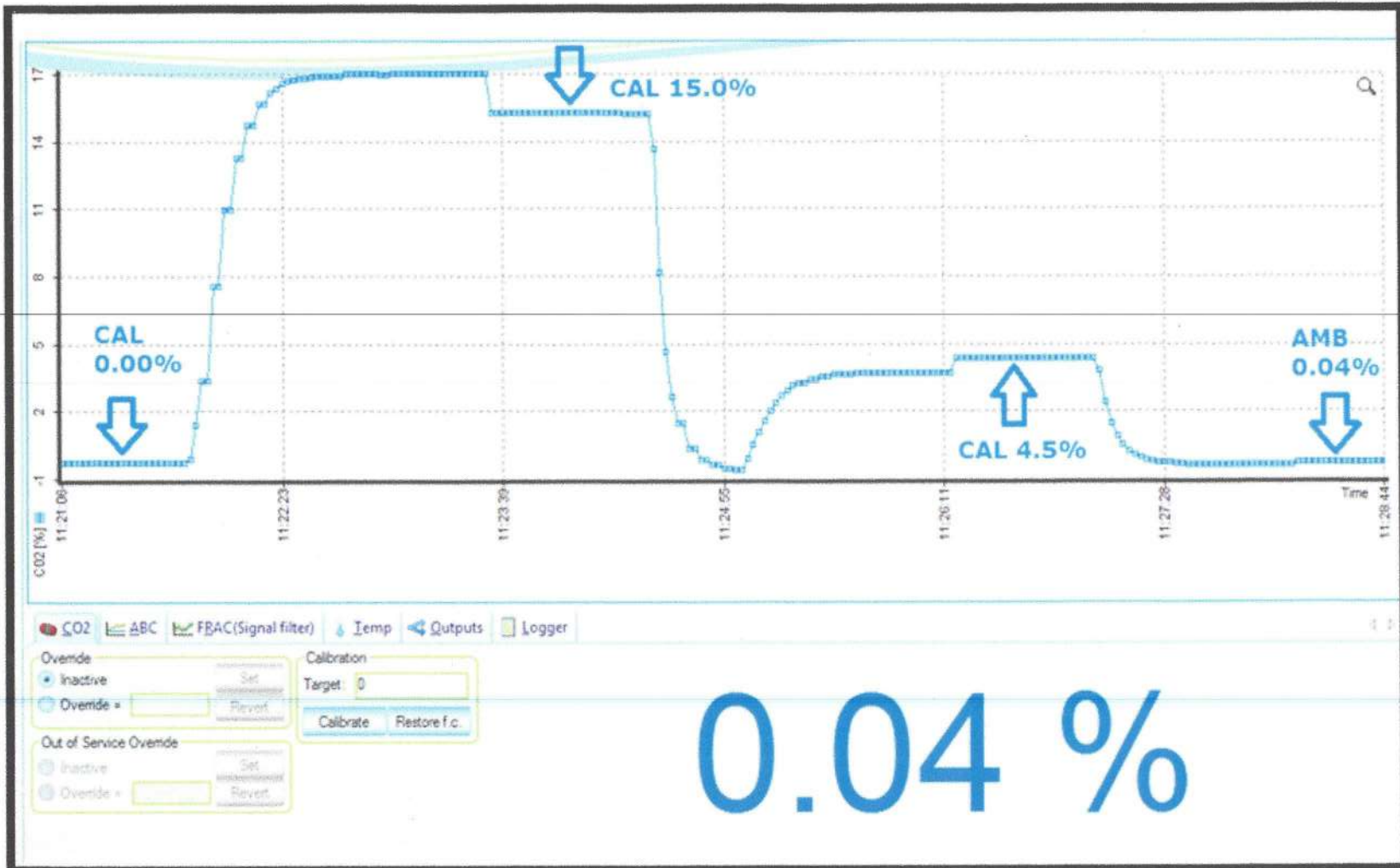
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# 0.04 %

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Date: [Redacted]  
Contact: [Redacted]  
Company: [Redacted]

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Page: 3 of 3

Item	Qty	Serial Number	Calibration Gas		Previous Calibration	After Calibration
CM-0017 0-30% CO2	1	03-0E-2E-31	Nitrogen 100%	( ± 0.015%) P/N 221L-114 Date: JUL-13 LOT#HAN-114-12	0.03% CO2	0.00% CO2
			CO2 4.5%	( ± 0.015%) P/N 221L-35-4.5 Date: JUN-12 LOT#GAM-35-4.5-1	3.50% CO2	4.48% CO2
			CO2 15.0%	( ± 0.015%) P/N 221L-35-15 Date: FEB 12 LOT#CAM-35-15-3	16.71% CO2	14.98% CO2

### How values are presented on our website

Values for accuracy and repeatability on our website are presented in pairs. The two values correspond to an absolute value, and then a percentage of the currently measured value, with the larger of the two values being considered to be the actual rating at that concentration. For example, for the K33-ICB, the following values are given for accuracy:

### Accuracy: ± 0.2% vol CO2, ± 3% of measured value

This implies that accuracy is bounded by both an absolute minimal, and by a percentage, of the measured value. When calculating the accuracy of the measurement, we must always take the looser specification. For example, when reading values below approximately 6.5% we notice that 3% of the measured value is actually less than 0.2% vol CO2, so the accuracy of the unit is ±0.2%. Once we climb above CO2 concentrations of 6.5% we notice that 3% of the measured value is actually greater than 0.2%, so this becomes the looser rating and the correct measurement of accuracy. At 10% CO2 the accuracy of the unit would be ±0.3%.