

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Weedon Engineering 5105 Buffalo Avenue, Jacksonville, FL 32206

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

ISO/IEC 17025:2017 & Meets requirements of ANSI/NCSI Z540.3-2006 subclause 5.3

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 April 2017):

Chemical, Dimensional, Electrical, Mass, Force, and Weighing, Mechanical and Thermodynamic Calibration (As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. 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:

Tracy Szerszen President

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084 Initial Accreditation Date: December 09, 2011 Issue Date:

July 04, 2024

Expiration Date: October 31, 2026

Accreditation No.: 69815 Certificate No.: L24-506

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: <u>www.pjlabs.com</u>



Weedon Engineering

5105 Buffalo Avenue, Jacksonville, FL 32206 Contact Name: Mr. Greg Weedon Phone: 904-355-8411

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Gas Detectors ^F				
Carbon Monoxide ^F	80 ppm to 120 ppm	1.2 % of reading	Gas Mixtures	WEC-CP-GAS-1
Hydrogen Sulfide ^F	25 ppm to 35 ppm	1.2 % of reading		
Oxygen ^F	15 % to 21 %	1.3 % of reading		
Methane ^F	2 % Volume to 3% Volume	1.3 % of reading	Gas Mixtures with Correction Factors for Hydrogen Propane N-Butane N-Pentane N-Pentane N-Hexane N-Octane Methanol Ethanol Isopropyl Alcohol Acetone Ammonia Toluene Gasoline	WEC-CP-GAS-1

Dimensional				
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Indicators FO	0.01 in to 1 in	83 µin	Gage Blocks	WEC-CP-IND-1
Micrometer FO	0.01 in to 12 in	78 µin		WEC-CP-MIC-1
Calipers FO	0.01 in to 12 in	139 µin		WEC-CI-CALIFER-I
Coating Thickness	3.09 mL	0.2 mils	Coated Metal Plates	WEC-CP-CTTHK-1
Gages Nonferrous	10.05 mL	1.4 mils		
	50.30 mL	1.9 mils		



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Accreditation is granted to the facility to perform the following testing:

MEASURED INSTRUME QUANTITY OR GAUCE UNITEDRANCE CALIBRATION AD MEASUREMENT ASA NUNCERTAINTY (*)CALIBRATION REFERENCE ASA NUNCERTAINTY (*)CALIBRATION REFERENCE ASA NUNCERTAINTY (*)CALIBRATION REFERENCE ASA NUNCERTAINTY (*)CALIBRATION REFERENCE ASA NUNCERTAINTY (*)CALIBRATION REFERENCE STABARDENS USEDCALIBRATION REFERENCE OR PROCEDURES USEDEquipment to Output 100 Vto 100 V0.058 W + 0.01 % of reading 100 Vto 100 V0.058 V + 0.01 % of reading 0.056 V + 0.23 % of readingFluke S845AOEM Procedures WEC-CP-PROCESS-I WEC-CP-PROCESS-I WEC-CP-PROCESS-I WEC-CP-PROCESS-I WEC-CP-PROCESS-IEquipment to Measure DC Voltage ¹⁰ 0.1 m V to 202 W4.44 µV + 0.001 7 % of reading 20 V to 202 VTransmille 20 V to 202 WCom Procedures WEC-CP-PROCESS-I WEC-CP-PROCESS-IEquipment to Measure DC Current ¹⁰ 3.44 to 202 µA3.48 2 nA + 0.006 % of reading 2 mA to 202 nA21.27 µA + 0.12 % of reading 2 mA to 202 nA21.27 µA + 0.12 % of reading 2 mA to 202 nA21.27 µA + 0.005 % of reading 2 mA to 202 nA21.27 µA + 0.005 % of reading 2 mA to 202 nA21.27 µA + 0.006 % of reading 2 mA to 202 nA21.27 µA + 0.12 % of reading 2 mA to 202 nA21.27 µA + 0.006 % of reading 2 mA to 202 nA21.27 µA + 0.007 % of reading 2 mA to 202 nA21.27 µA + 0.017 % of reading 2 mA to 202 nA21.27 µA + 0.017 % of reading 2 mA to 202 nACOM Procedures 2 mA to 202 nACoM Procedures 2 mA to 202 nAEquipment to Output JC Voltage0.01 mV to 100 mV0.035 mV + 0.037 % of reading 2 mA to 202 nA0.01 mV to 100 mV0.026 mV + 0.069 % of readi	Electrical				
$ \begin{array}{c} \mbox{Equipment to Output} \\ DC Voltage ^{10} \\ DC Voltage ^{10} \\ \hline 0.1 \ V to 1 0V \\ 10 \ V to 10V \\ 0.058 \ V + 0.01 \ \% \ of reading \\ \hline 1V \ to 1 0V \\ 0.058 \ V + 0.01 \ \% \ of reading \\ \hline 10 \ V to 1 0V \\ 100 \ V to 1 00V \\ 0.056 \ V + 0.23 \ \% \ of reading \\ \hline 100 \ V to 1 00V \\ 0.056 \ V + 0.23 \ \% \ of reading \\ \hline VEC - CP-PWSPLY-1 \\ WEC - CP-DWSPLY-1 \\ WEC - CP-PWSPLY-1 \\ WEC - CP-PWS$	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Equipment to Output	0.01 mV to 100 mV	0.058 mV + 0.07 % of reading	Fluke 8845A	OEM Procedures
$ \begin{array}{ c c c c c c } \hline 1 & V to 10 V & 0.058 V + 0.01 \% of reading \\ \hline 10 V to 100 V & 0.058 V + 0.03 \% of reading \\ \hline 100 V to 1000 V & 0.056 V + 0.23 \% of reading \\ \hline 100 V to 1000 V & 0.056 V + 0.23 \% of reading \\ \hline 100 V to 1000 V & 0.056 V + 0.23 \% of reading \\ \hline 100 V to 202 mV & 4.44 \mu V + 0.001 7 \% of reading \\ \hline 0.2 V to 202 V & 15.31 \mu V + 0.001 3 \% of reading \\ \hline 0.2 V to 202 V & 8.04 mV + 0.001 3 \% of reading \\ \hline 200 V to 1025 V & 10.6 mV + 0.003 \% of reading \\ \hline 200 V to 1025 V & 10.6 mV + 0.003 \% of reading \\ \hline 200 V to 1025 V & 10.6 mV + 0.002 2 \% of reading \\ \hline 200 V to 1025 V & 10.6 mV + 0.002 2 \% of reading \\ \hline 0.2 m to 2.02 mA & 137.07 nA + 0.002 2 \% of reading \\ \hline 0.2 m to 2.02 mA & 21.27 \mu A + 0.12 \% of reading \\ \hline 0.2 m to 2.02 mA & 21.27 \mu A + 0.12 \% of reading \\ \hline 20 M to 2.02 mA & 21.27 \mu A + 0.12 \% of reading \\ \hline 2 A to 30 A & 1.44 mA + 0.001 8 \% of reading \\ \hline 10 Hz to 20 HHz & 0.01 mV to 100 mV & 0.038 mV + 0.37 \% of reading \\ \hline 100 Hz to 30 Hz & 0.01 mV to 100 mV & 0.058 mV + 0.069 \% of reading \\ \hline 100 Hz to 30 Hz & 0.01 mV to 100 mV & 0.058 mV + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.01 mV to 100 mV & 0.058 mV + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.01 mV to 100 mV & 0.058 mV + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.21 V + 0.071 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.04 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.04 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 100 Hz to 300 Hz & 0.1 V to 1 V & 0.0035 V + 0.04 \% of reading \\ \hline 100 Hz to 300 Hz & 0.01 V V to 1 V & 0.0035 V + 0.04$	DC Voltage FO	0.1 V to 1 V	0.058 V + 0.01 % of reading		WEC-CP-DMM-1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1 V to 10 V	0.058 V + 0.01 % of reading		WEC-CP-PROCESS-1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		10 V to 100 V	0.058 V + 0.03 % of reading		WEC-CP-PWRSPLY-1
Equipment to Measure DC Voltage FO 0.1 mV to 202 mV 4.44 μ V + 0.001 7 % of reading 0.2 V to 2.02 V Transmille 2.0 V to 2.02 V Transmille 2.0 V to 2.02 V Soft measure 15.31 μ V + 0.001 3 % of reading 20 V to 1 025 V Transmille 20 V to 2.02 V Soft measure 20 V to 2.02 V WEC-CP-LAMP-1 WEC-CP-LAMP-1 WEC-CP-LAMP-1 WEC-CP-LAMP-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PMRCESS-1 Equipment to Output AC 202 mA 2 mA to 2.02 mA 2 mA to 2.02 mA 2 to 2.02 mA 2 a to 2.02 mA 2 a to 2.02 mA 2 a to 2.02 mA 2 a to 2.02 mA 		100 V to 1 000 V	0.056 V + 0.23 % of reading		WEC-CP- RC/RTD/RTD1
Measure DC Voltage F0 $0.2 V to 2.02 V$ $15.31 \mu V + 0.001 3 \%$ of reading 20 V to 202 V $8.04 mV + 0.001 9 %$ of reading 20 V to 1 025 V $10.6 mV + 0.003 %$ of reading 20 V to 1 025 V $10.6 mV + 0.003 %$ of reading 20 V to 202 V $8.04 mV + 0.001 9 %$ of reading 20 V to 1 025 V $10.6 mV + 0.003 %$ of reading 0.2 mA to 2.02 mA $34.82 nA + 0.006 %$ of reading $2 mA to 2.02 mA$ $21.27 \mu A + 0.12 \%$ of reading $2 mA to 2.02 mA$ $21.27 \mu A + 0.12 \%$ of reading $0.2 A to 2.02 A$ $99.63 \mu A + 0.006 \%$ of reading $0.2 A to 2.02 A$ $99.63 \mu A + 0.006 \%$ of reading $0.2 A to 2.02 A$ $99.63 \mu A + 0.006 \%$ of reading $0.2 A to 2.02 A$ $99.63 \mu A + 0.006 \%$ of reading $0.2 A to 2.02 A$ $99.63 \mu A + 0.006 \%$ of reading $0.2 A to 2.02 A$ $99.63 \mu A + 0.006 \%$ of reading 0.1 A to 2.02 mA $0.01 mV to 100 mV$ $0.033 mV + 0.37 %$ of reading 0.01 mV to 100 mV $0.003 mV + 0.37 %$ of reading 0.01 mV to 100 mV $0.005 mV + 0.13 %$ of reading 0.01 mV to 100 mV $0.092 mV + 0.069 %$ of reading 0.01 mV to 100 mV $0.025 mV + 0.069 %$ of reading 0.01 mV to 100 mV $0.025 mV + 0.069 %$ of reading 0.01 MV to 100 mV $0.025 WV + 0.069 %$ of reading 0.01 MV to 100 mV $0.021 V + 0.071 %$ of reading 0.01 MV to 1 V $0.021 V + 0.071 %$ of reading 0.01 MV to 1 V $0.021 V + 0.071 %$ of reading 0.01 MV to 1 V $0.021 V + 0.079 %$ of reading 0.01 MV to 1 V $0.003 S V + 0.046 %$ of reading 0.01 MV to 1 V $0.003 S V + 0.046 %$ of reading 0.01 MV to 1 V $0.003 S V + 0.046 %$ of	Equipment to	0.1 mV to 202 mV	4.44 µV + 0.001 7 % of reading	Transmille	OEM Procedures
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Measure DO V I FO	0.2 V to 2.02 V	15.31 µV + 0.001 3 % of reading	25PPM Multi-	WEC-CP-DMM-1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	DC Voltage	20 V to 202 V	8.04 mV + 0.001 9 % of reading	Calibrator	WEC-CP-CLAMP-1 WEC-CP-MEGGER-1
$ \begin{array}{c} \mbox{Equipment to} \\ \mbox{Measure} \\ DC Current ^{PO} \\ \hline 0.2 mA to 2.02 mA \\ 2 mA to 2.02 mA \\ 2 mA to 2.02 mA \\ 137.07 nA + 0.002 2 \% of reading \\ 2 mA to 2.02 mA \\ 2 1.27 \mu A + 0.12 \% of reading \\ \hline 0.2 A to 2.02 A \\ 99.63 \mu A + 0.006 \% of reading \\ \hline 0.2 A to 2.02 A \\ 99.63 \mu A + 0.006 \% of reading \\ \hline 0.2 A to 30 A \\ 1.44 mA + 0.001 8 \% of reading \\ \hline 2 A to 30 A \\ 1.44 mA + 0.001 8 \% of reading \\ \hline 10 Hz to 20 kHz \\ 0.01 mV to 100 mV \\ 0.033 mV + 0.37 \% of reading \\ \hline 10 Hz to 20 kHz \\ 0.01 mV to 100 mV \\ 0.033 mV + 0.37 \% of reading \\ \hline 10 Hz to 300 kHz \\ 0.01 mV to 100 mV \\ 0.092 mV + 0.069 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 mV to 100 mV \\ 0.092 mV + 0.069 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V0 \\ 0.035 W + 4.61 \% of reading \\ \hline 10 Hz to 20 kHz \\ 0.1 V to 1 V \\ 0.035 W + 0.069 \% of reading \\ \hline 20 kHz to 50 kHz \\ 0.1 V to 1 V \\ 0.01 mV to 100 mV \\ 0.058 mV + 4.61 \% of reading \\ \hline Equipment to Output AC Voltage \\ At the Listed Frequencies ^{PO} \\ \hline 3 Hz to 10 Hz \\ 0.1 V to 1 V \\ 0.01 mV to 100 mV \\ 0.035 W + 0.069 \% of reading \\ \hline 10 Hz to 20 kHz \\ 0.1 V to 1 V \\ 0.035 V + 0.069 \% of reading \\ \hline 10 Hz to 20 kHz \\ 0.1 V to 1 V \\ 0.035 V + 0.069 \% of reading \\ \hline 10 Hz to 20 kHz \\ 0.1 V to 1 V \\ 0.035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V \\ 0.035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V \\ 0.035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V \\ 0.035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V \\ 0.035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V \\ 0.035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V \\ 0.0035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V \\ 0.0035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 V \\ 0.0035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 0 V \\ 0.0035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 0 V \\ 0.0035 V + 0.46 \% of reading \\ \hline 10 0 kHz to 300 kHz \\ 0.1 V to 1 0 V \\ 0.0035 V + 0.069 \% of readi$		200 V to 1 025 V	10.6 mV + 0.003 % of reading		WEC-CP-PWRSPLY-1
$ \begin{array}{c} \mbox{Measure} \\ DC Current $^{\rm PO}$ & \hline 0.2 mA to 2.02 mA & 137.07 nA + 0.002 2 \% of reading \\ \hline 2 mA to 20.2 mA & 444.62 nA + 0.002 5 \% of reading \\ \hline 2 0 mA to 202 mA & 21.27 \mu A + 0.12 \% of reading \\ \hline 0.2 A to 2.02 A & 99.63 \mu A + 0.006 \% of reading \\ \hline 0.2 A to 2.02 A & 99.63 \mu A + 0.006 \% of reading \\ \hline 0.2 A to 2.02 A & 99.63 \mu A + 0.006 \% of reading \\ \hline 2 A to 30 A & 1.44 mA + 0.001 8 \% of reading \\ \hline Equipment to Output AC Voltage \\ At the Listed Frequencies $^{\rm PO}$ & \hline 10 Hz & 0.01 mV to 100 mV & 0.033 mV + 0.37 \% of reading \\ \hline 10 Hz to 20 kHz & 0.01 mV to 100 mV & 0.046 mV + 0.069 \% of reading \\ \hline 20 kHz to 50 kHz & 0.01 mV to 100 mV & 0.058 mV + 0.13 \% of reading \\ \hline 100 kHz to 300 kHz & 0.01 mV to 100 mV & 0.058 mV + 4.61 \% of reading \\ \hline Equipment to Output AC Voltage \\ At the Listed Frequencies $^{\rm PO}$ & \hline 11 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 20 kHz to 50 kHz & 0.1 mV to 100 mV & 0.021 V + 0.071 \% of reading \\ \hline 100 kHz to 300 kHz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 20 kHz to 50 kHz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 10 Hz to 20 kHz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 10 Hz to 20 kHz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 10 hz to 20 kHz & 0.1 V to 1 V & 0.035 V + 0.069 \% of reading \\ \hline 100 kHz to 300 kHz & 0.1 V to 1 V & 0.058 V + 0.13 \% of reading \\ \hline 100 kHz to 300 kHz & 0.1 V to 1 V & 0.058 V + 0.069 \% of reading \\ \hline 100 kHz to 300 kHz & 0.1 V to 1 V & 0.058 V + 0.46 \% of reading \\ \hline 100 kHz to 300 kHz & 0.1 V to 1 V & 0.058 V + 0.46 \% of reading \\ \hline 100 kHz to 300 kHz & 1.1 V to 1 V & 0.003 5 V + 0.46 \% of reading \\ \hline 100 kHz to 300 kHz & 1.1 V to 1 V & 0.003 5 V + 0.46 \% of reading \\ \hline 100 kHz to 300 kHz & 1.1 V to 1 V & 0.003 5 V + 0.060 \% of reading \\ \hline 100 kHz to 300 kHz & 1.1 V to 1 V & 0.003 5 V + 0.060 \% of reading \\ \hline 100 kHz to 300 kHz & 1.1 V to 1 0 V & 0.003 5 V + 0.060 \% of reading \\ \hline 100 kHz to 300 kHz & 1.1 V to 1 0 V & 0.003 5 V + 0.060 \% of reading \\ \hline 100 kHz to 300 kHz & 1.1 V to 1 0 V & 0.003 5$	Equipment to	3 µA to 202 µA	34.82 nA + 0.006 % of reading		WEC-CP-
$ \begin{array}{c} 10\ \mbox{Current}^{10} & \begin{tabular}{ c c c c c } \hline 2\ \mbox{mA}\ to\ 20.2\ \mbox{mA}\ 0.21\ \mbox{mA}\ 1.44\ \mbox{mA}\ + 0.002\ \mbox{mA}\ 0.01\ \mbox{mA}\ 0.01\ \mbox{mA}\ 0.02\ \mbox{mA}\ 0.01\ \mbox{mA}\ 0.03\ \mbox{mA}\ + 0.00\ \mbox{mA}\ 0.01\ \mbox{mA}\ 0.0$	Measure	0.2 mA to 2.02 mA	137.07 nA + 0.002 2 % of reading		RC/RTD/RDOUT-1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	DC Current	2 mA to 20.2 mA	444.62 nA + 0.002 5 % of reading	\sim	whether in Rochssen
$ \frac{0.2 \text{ A to } 2.02 \text{ A}}{2.03 \text{ A}} = 99.63 \mu \text{A} + 0.006 \% \text{ of reading}}{2 \text{ A to } 30 \text{ A}} = 1.44 \text{ mA} + 0.001 8 \% \text{ of reading} $ Equipment to Output AC Voltage At the Listed Frequencies F0 Since S		20 mA to 202 mA	21.27 µA + 0.12 % of reading		
2 A to 30 A1.44 mA + 0.001 8 % of readingEquipment to Output AC Voltage At the Listed Frequencies FO Fluke 8845A5 Hz to 10 Hz0.01 mV to 100 mV0.033 mV + 0.37 % of reading10 Hz to 20 kHz0.01 mV to 100 mV0.046 mV + 0.069 % of reading20 kHz to 50 kHz0.01 mV to 100 mV0.058 mV + 0.13 % of reading20 kHz to 100 kHz0.01 mV to 100 mV0.092 mV + 0.069 % of reading100 kHz to 300 kHz0.01 mV to 100 mV0.092 mV + 0.069 % of reading100 kHz to 300 kHz0.01 mV to 100 mV0.58 mV + 4.61 % of readingEquipment to Output AC Voltage At the Listed Frequencies FO 0.21 V + 0.071 % of reading100 kHz to 300 kHz0.1 V to 1 V0.035 V + 0.069 % of reading20 kHz to 50 kHz0.1 V to 1 V0.035 V + 0.069 % of reading10 Hz to 20 kHz0.1 V to 1 V0.035 V + 0.46 % of reading10 Hz to 20 kHz0.1 V to 1 V0.003 5 V + 0.46 % of reading10 0 kHz to 300 kHz0.1 V to 1 V0.003 5 V + 0.46 % of reading10 0 kHz to 100 kHz1 V to 10 V0.003 5 V + 0.46 % of reading100 kHz to 20 kHz1 V to 10 V0.003 5 V + 0.46 % of reading100 kHz to 20 kHz1 V to 10 V0.003 5 V + 0.46 % of reading100 kHz to 20 kHz1 V to 10 V0.003 5 V + 0.46 % of reading100 kHz to 20 kHz1 V to 10 V0.003 5 V + 0.46 % of reading		0.2 A to 2.02 A	99.63 µA + 0.006 % of reading		
Equipment to Output AC Voltage At the Listed Frequencies FO Fluke 8845AOEM Procedures WEC-CP-DMM-1 WEC-CP-DMM-1 WEC-CP-CLAMP-110 Hz to 20 kHz0.01 mV to 100 mV0.046 mV + 0.069 % of readingWEC-CP-CLAMP-1 WEC-CP-CLAMP-1 WEC-CP-CLAMP-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PWRSPLY-1 WEC-CP-PROCESS-1100 kHz to 300 kHz0.01 mV to 100 mV0.092 mV + 0.069 % of readingWEC-CP-PWRSPLY-1 WEC-CP-ROCESS-1100 kHz to 300 kHz0.01 mV to 100 mV0.092 mV + 4.61 % of readingWEC-CP-PROCESS-1Equipment to Output AC Voltage At the Listed Frequencies FO 0.1 V to 1 V0.21 V + 0.071 % of reading20 kHz to 50 kHz0.1 V to 1 V0.035 V + 0.069 % of readingWEC-CP-PROCESS-120 kHz to 50 kHz0.1 V to 1 V0.081 V + 0.099 % of readingWEC-CP-PROCESS-120 kHz to 50 kHz0.1 V to 1 V0.081 V + 0.099 % of readingWEC-CP-PROCESS-120 kHz to 100 kHz0.1 V to 1 V0.058 V + 0.46 % of readingWEC-CP-PROCESS-110 Hz to 300 kHz0.1 V to 1 V0.003 5 V + 0.46 % of readingWEC-CP-PROCESS-1Equipment to Output AC Voltage At the Listed Frequencies FO 1 V to 10 V0.003 5 V + 0.46 % of reading10 Hz to 20 kHz1 V to 10 V0.003 5 V + 0.4 % of reading10 Hz to 20 kHz1 V to 10 V0.003 5 V + 0.46 % of reading10 Hz to 20 kHz1 V to 10 V0.003 5 V + 0.46 % of reading		2 A to 30 A	1.44 mA + 0.001 8 % of reading		
5 Hz to 10 Hz 0.01 mV to 100 mV 0.033 mV + 0.37 % of reading WEC-CP-CLAMP-1 10 Hz to 20 kHz 0.01 mV to 100 mV 0.046 mV + 0.069 % of reading WEC-CP-MEGGER-1 20 kHz to 50 kHz 0.01 mV to 100 mV 0.058 mV + 0.13 % of reading WEC-CP-WRSPLY-1 50 kHz to 100 kHz 0.01 mV to 100 mV 0.092 mV + 0.069 % of reading WEC-CP-PWRSPLY-1 100 kHz to 300 kHz 0.01 mV to 100 mV 0.58 mV + 4.61 % of reading WEC-CP-PWRSPLY-1 Equipment to Output AC Voltage At the Listed Frequencies FO KC/RTD/RDOUT-1 WEC-CP-PROCESS-1 3 Hz to10 Hz 0.1 V to 1 V 0.21 V + 0.071 % of reading WEC-CP-PROCESS-1 20 kHz to 50 kHz 0.1 V to 1 V 0.035 V + 0.069 % of reading WEC-CP-PROCESS-1 20 kHz to 50 kHz 0.1 V to 1 V 0.035 V + 0.069 % of reading WEC-CP-PROCESS-1 10 Hz to 20 kHz 0.1 V to 1 V 0.035 V + 0.46 % of reading WEC-CP-PROCESS-1 100 kHz to 300 kHz 0.1 V to 1 V 0.058 V + 0.46 % of reading WEC-CP-PROCESS-1 100 kHz to 100 kHz 0.1 V to 1 V 0.058 V + 0.46 % of reading WEC-CP-PROCESS-1 100 kHz to 20 kHz 1 V to 10 V 0.003 5 V + 0.46 % of reading WEC-CP-PROCESS-1<	Equipment to Output AC Voltage			Fluke 8845A	OEM Procedures WEC-CP-DMM-1
10 Hz to 20 kHz 0.01 mV to 100 mV 0.046 mV + 0.069 % of reading 20 kHz to 50 kHz 0.01 mV to 100 mV 0.058 mV + 0.13 % of reading 50 kHz to 100 kHz 0.01 mV to 100 mV 0.092 mV + 0.069 % of reading 100 kHz to 300 kHz 0.01 mV to 100 mV 0.58 mV + 4.61 % of reading Equipment to Output AC Voltage At the Listed Frequencies FO	5 Hz to 10 Hz	0.01 mV to 100 mV	0.033 mV + 0.37 % of reading		WEC-CP-CLAMP-1
20 kHz to 50 kHz 0.01 mV to 100 mV 0.058 mV + 0.13 % of reading 50 kHz to 100 kHz 0.01 mV to 100 mV 0.092 mV + 0.069 % of reading 100 kHz to 300 kHz 0.01 mV to 100 mV 0.58 mV + 4.61 % of reading Equipment to Output AC Voltage 4.61 % of reading At the Listed Frequencies FO 0.1 V to 1 V 0.21 V + 0.071 % of reading 10 Hz to 20 kHz 0.1 V to 1 V 0.035 V + 0.069 % of reading 20 kHz to 50 kHz 0.1 V to 1 V 0.035 V + 0.069 % of reading 20 kHz to 100 kHz 0.1 V to 1 V 0.035 V + 0.069 % of reading 10 Hz to 20 kHz 0.1 V to 1 V 0.058 V + 0.069 % of reading 100 kHz to 100 kHz 0.1 V to 1 V 0.058 V + 0.46 % of reading 100 kHz to 300 kHz 0.1 V to 1 V 0.058 V + 0.46 % of reading 100 kHz to 100 kHz 0.1 V to 1 V 0.003 5 V + 0.46 % of reading Equipment to Output AC Voltage 4t the Listed Frequencies FO 5 Hz to 10 Hz 5 Hz to 10 Hz 1 V to 10 V 0.003 5 V + 0.4 % of reading 10 Hz to 20 kHz 1 V to 10 V 0.035 V + 0.46 % of reading	10 Hz to 20 kHz	0.01 mV to 100 mV	0.046 mV + 0.069 % of reading		WEC-CP-MEGGER-1
50 kHz to 100 kHz $0.01 mV to 100 mV$ $0.092 mV + 0.069 %$ of reading $RC/RTD/RDOUT-1$ $100 kHz to 300 kHz$ $0.01 mV to 100 mV$ $0.58 mV + 4.61 %$ of readingEquipment to Output AC Voltage At the Listed Frequencies F0 $RC/RTD/RDOUT-1 %$ $3 Hz to 10 Hz$ $0.1 V to 1 V$ $0.21 V + 0.071 %$ of reading $10 Hz to 20 kHz$ $0.1 V to 1 V$ $0.035 V + 0.069 %$ of reading $20 kHz to 50 kHz$ $0.1 V to 1 V$ $0.081 V + 0.099 %$ of reading $50 kHz to 100 kHz$ $0.1 V to 1 V$ $0.49 V + 0.13 %$ of reading $100 kHz to 300 kHz$ $0.1 V to 1 V$ $0.058 V + 0.46 %$ of reading $100 kHz to 300 kHz$ $0.1 V to 1 V$ $0.0035 V + 0.46 %$ of reading $100 kHz to 100 kHz$ $1 V to 10 V$ $0.0035 V + 0.46 %$ of reading $10 Hz to 20 kHz$ $1 V to 10 V$ $0.0035 V + 0.46 %$ of reading	20 kHz to 50 kHz	0.01 mV to 100 mV	0.058 mV + 0.13 % of reading		WEC-CP-PWKSPLY-1
100 kHz to 300 kHz $0.01 \text{ mV to 100 mV}$ $0.58 \text{ mV} + 4.61 \%$ of reading WEC-CP-PROCESS-1 Equipment to Output AC Voltage At the Listed Frequencies FO 60 mV $0.21 \text{ V} + 0.071 \%$ of reading 0.1 V to 1 V $0.21 \text{ V} + 0.071 \%$ of reading 10 Hz to 20 kHz 0.1 V to 1 V $0.035 \text{ V} + 0.069 \%$ of reading $0.081 \text{ V} + 0.099 \%$ of reading 20 kHz to 50 kHz 0.1 V to 1 V $0.081 \text{ V} + 0.099 \%$ of reading 0.1 V to 1 V $0.049 \text{ V} + 0.13 \%$ of reading 50 kHz to 100 kHz 0.1 V to 1 V $0.058 \text{ V} + 0.46 \%$ of reading $0.0008 \text{ K} + 0.0008 \text{ K} + 0.00008 \text{ K} + 0.0008 \text{ K} + 0.0008 \text{ K} + 0.00008 K$	50 kHz to 100 kHz	0.01 mV to 100 mV	0.092 mV + 0.069 % of reading		RC/RTD/RDOUT-1
Equipment to Output AC Voltage At the Listed Frequencies FO3 Hz to10 Hz0.1 V to 1 V0.21 V + 0.071 % of reading10 Hz to 20 kHz0.1 V to 1 V0.035 V + 0.069 % of reading20 kHz to 50 kHz0.1 V to 1 V0.081 V + 0.099 % of reading50 kHz to 100 kHz0.1 V to 1 V0.49 V + 0.13 % of reading100 kHz to 300 kHz0.1 V to 1 V0.058 V + 0.46 % of readingEquipment to Output AC Voltage At the Listed Frequencies FO	100 kHz to 300 kHz	0.01 mV to 100 mV	0.58 mV + 4.61 % of reading		WEC-CP-PROCESS-1
At the Listed Frequencies 3 Hz tol 0 Hz 0.1 V tol V 0.21 V + 0.071 % of reading 10 Hz to 20 kHz 0.1 V tol V 0.035 V + 0.069 % of reading 20 kHz to 50 kHz 0.1 V tol V 0.081 V + 0.099 % of reading 50 kHz to 100 kHz 0.1 V tol V 0.49 V + 0.13 % of reading 100 kHz to 300 kHz 0.1 V tol V 0.058 V + 0.46 % of reading 100 kHz to 300 kHz 0.1 V tol V 0.003 5 V + 0.46 % of reading Equipment to Output AC Voltage At the Listed Frequencies FO 5 Hz to 10 Hz 1 V to 10 V 0.003 5 V + 0.4 % of reading 10 Hz to 20 kHz 1 V to 10 V 0.035 V + 0.69 % of reading	Equipment to Output A	C Voltage			
10 Hz to 20 kHz 0.1 V to 1 V 0.035 V + 0.069 % of reading 20 kHz to 50 kHz 0.1 V to 1 V 0.081 V + 0.099 % of reading 50 kHz to 100 kHz 0.1 V to 1 V 0.49 V + 0.13 % of reading 100 kHz to 300 kHz 0.1 V to 1 V 0.058 V + 0.46 % of reading Equipment to Output AC Voltage At the Listed Frequencies FO 5 Hz to 10 Hz 1 V to 10 V 0.003 5 V + 0.4 % of reading 10 Hz to 20 kHz 1 V to 10 V 0.035 V + 0.69 % of reading	3 Hz to10 Hz	0.1 V to 1 V	0.21 V + 0.071 % of reading	-	
20 kHz to 50 kHz 0.1 V to 1 V 0.081 V + 0.099 % of reading 50 kHz to 100 kHz 0.1 V to 1 V 0.49 V + 0.13 % of reading 100 kHz to 300 kHz 0.1 V to 1 V 0.058 V + 0.46 % of reading Equipment to Output AC Voltage At the Listed Frequencies FO 5 Hz to 10 Hz 1 V to 10 V 0.003 5 V + 0.4 % of reading 10 Hz to 20 kHz 1 V to 10 V 0.035 V + 0.069 % of reading	10 Hz to 20 kHz	0.1 V to 1 V	0.035 V + 0.069 % of reading	-	
50 kHz to 100 kHz 0.1 V to 1 V 0.49 V + 0.13 % of reading100 kHz to 300 kHz 0.1 V to 1 V 0.058 V + 0.46 % of readingEquipment to Output AC Voltage At the Listed Frequencies FO5 Hz to 10 Hz1 V to 10 V 0.003 5 V + 0.4 % of reading10 Hz to 20 kHz1 V to 10 V 0.035 V + 0.69 % of reading	20 kHz to 50 kHz	0.1 V to 1 V	0.081 V + 0.099 % of reading	-	
100 kHz to 300 kHz $0.1 V$ to $1 V$ $0.058 V + 0.46 \%$ of readingEquipment to Output AC Voltage At the Listed Frequencies FO5 Hz to 10 Hz $1 V$ to $10 V$ $0.003 5 V + 0.4 \%$ of reading10 Hz to 20 kHz $1 V$ to $10 V$ $0.035 V + 0.69 \%$ of reading	50 kHz to 100 kHz	0.1 V to 1 V	0.49 V + 0.13 % of reading	-	
Equipment to Output AC Voltage At the Listed Frequencies FO 5 Hz to 10 Hz 1 V to 10 V 0.003 5 V + 0.4 % of reading 10 Hz to 20 kHz 1 V to 10 V 0.035 V + 0.69 % of reading	100 kHz to 300 kHz	0.1 V to 1 V	0.058 V + 0.46 % of reading	-	
5 Hz to 10 Hz 1 V to 10 V 0.003 5 V + 0.4 % of reading 10 Hz to 20 kHz 1 V to 10 V 0.035 V + 0.069 % of reading	Equipment to Output A At the Listed Frequence	AC Voltage	I	-	
10 Hz to $20 kHz$ 1 V to $10 V$ 0.035 V + 0.069 % of reading	5 Hz to 10 Hz	1 V to 10 V	0.003 5 V + 0.4 % of reading	1	
	10 Hz to 20 kHz	1 V to 10 V	0.035 V + 0.069 % of reading	1	
20 kHz to 50 kHz 1 V to 10 V 0.058 V + 0.13 % of reading	20 kHz to 50 kHz	1 V to 10 V	0.058 V + 0.13 % of reading	1	
50 kHz to 100 kHz 1 V to 10 V 0.092 V + 0.69 % of reading	50 kHz to 100 kHz	1 V to 10 V	0.092 V + 0.69 % of reading	1	
100 kHz to 300 kHz 1 V to 10 V 0.58 V + 4.61 % of reading	100 kHz to 300 kHz	1 V to 10 V	0.58 V + 4.61 % of reading	1	

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This supplement is in conjunction with certificate #L24-506



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MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to Output A	C Voltage		Fluke 8845A	OEM Procedures
At the Listed Frequencie	es ^{FO}		-	WEC-CP-DMM-1
10 Hz to 20 kHz	10 V to 100 V	0.035 V + 0.069 % of reading		WEC-CP-CLAMP-1
20 kHz to 50 kHz	10 V to 100 V	0.058 V + 0.13 % of reading		WEC-CP-MEGGER-1
Equipment to Output A At the Listed Frequencie	C Voltage es ^{FO}			WEC-CP- RC/RTD/RDOUT-1
10 Hz to 20 kHz	100 V to 750 V	0.035 V + 0.069 % of reading		
20 kHz to 50 kHz	100 V to 750 V	0.058 V + 0.13 % of reading		
Equipment to Measure A At the Listed Frequencie	AC Voltage es ^{FO}		Transmille 25PPM Multi-Product	OEM Procedures WEC-CP-DMM-1
10 Hz to 44 Hz	0.1 mV to 202 mV	65.28 μV + 0.11 % of reading	Calibrator	WEC-CP-CLAMP-1
44 Hz to 999 Hz	0.1 mV to 202 mV	$33.03 \mu\text{V} + 0.02 \%$ of reading	-	WEC-CP-MEGGER-1
1 kHz to 19.999 kHz	0.1 mV to 202 mV	47.78 μV + 0.049 % of reading		RC/RTD/RDOUT-1
20 kHz to 99.999 kHz	0.1 mV to 202 mV	90.98 µV + 0.17 % of reading		WEC-CP-PROCESS-1
100 kHz to 500 kHz	0.1 mV to 202 mV	564.67 µV + 0.42 % of reading		
Equipment to Measure AC Voltage At the Listed Frequencies ^{FO}				
10 Hz to 44 Hz	0.2 V to 2.02 V	1.18 mV + 0.077 % of reading		
44 Hz to 999 Hz	0.2 V to 2.02 V	281.83 µV + 0.015 % of reading		
1 kHz to 19.999 kHz	0.2 V to 2.02 V	535.58 µV + 0.034 % of reading		
20 kHz to 99.999 kHz	0.2 V to 2.02 V	3.2 mV + 0.1 % of reading		
100 kHz to 500 kHz	0.2 V to 2.02 V	6.56 mV + 0.17 % of reading		
Equipment to Measure A At the Listed Frequencie	AC Voltage es ^{FO}			
10 Hz to 44 Hz	2 V to 20.2 V	6.55 mV + 0.1 % of reading		
44 Hz to 999 Hz	2 V to 20.2 V	1.93 mV + 0.016 % of reading		
1 Hz to 19.999 kHz	2 V to 20.2 V	3.2 mV + 0.033 % of reading		
20 kHz to 100 kHz	2 V to 20.2 V	45.92 mV + 0.1 % of reading		
Equipment to Measure A At the Listed Frequencie	AC Voltage es ^{FO}			
30 Hz to 44Hz	20 V to 202 V	13.46 mV + 0.028 % of reading		
45 Hz to 999 Hz	20 V to 202 V	12 mV + 0.018 % of reading]	
1 kHz to 20 kHz	20 V to 202 V	23.56 mV + 0.041 % of reading		



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Equipment to Measure	AC Voltage	Transmille 25PPM	OEM Procedures	
30 Hz to 44 Hz	200 V to 1 020 V	$133.14 \text{ mV} \pm 0.059\%$ of reading	Calibrator	WEC-CP-DMINI-1
45 Hz to 999 Hz	200 V to 1 020 V	159.68 mV + 0.035% of reading		
1 kHz to 10 kHz	200 V to 1 020 V	$70.04 \text{ mV} \pm 0.17\%$ of reading	-	WEC-CP-
Equipment to Measure	200 V to 1 020 V	70.04 mV + 0.17 % of reading	-	MEGGER-1
At the Listed Frequencie	es ^{FO}			RC/RTD/RDOUT-1
10 Hz to 44 Hz	20 µA to 202 µA	0.35 µA + 0.000 09 % of reading		WEC-CP-
45 Hz to 999 Hz	20 µA to 202 µA	0.33 μA + 0.000 032 % of reading		PROCESS-1
1 kHz to 10 kHz	20 µA to 202 µA	0.44 µA + 0.000 39 % of reading		
Equipment to Measure A At the Listed Frequencie	AC Current es ^{FO}			
10 Hz to 44Hz	0.2 mA to 2.02 mA	1.95 µA + 0.064 % of reading	\sim	
45 Hz to 999 Hz	0.2 mA to 2.02 mA	1.35 μA + 0.015 % of reading		
1 kHz to 10 kHz	0.2 mA to 2.02 mA	3.75 μA + 0.26 % of reading		
Equipment to Measure A At the Listed Frequencie	AC Current es ^{FO}			
10 Hz to 44 Hz	2 mA to 20.2 mA	8.97 μA + 0.1 % of reading		
45 Hz to 999 Hz	2 mA to 20.2 mA	5.85 µA + 0.029 % of reading		
1 Hz to 10 Hz	2 mA to 20.2 mA	17.56 μA + 0.24 % of reading		
Equipment to Measure A At the Listed Frequencie	AC Current es ^{FO}]	
10 Hz to 44 Hz	20 mA to 202 mA	89.68 µA + 0.1 % of reading		
45 Hz to 999 Hz	20 mA to 202 mA	58.53 µA + 0.029 % of reading		
1 kHz to 10 kHz	20 mA to 202 mA	188.61 µA + 0.3 % of reading		
Equipment to Measure A At the Listed Frequencie	AC Current es ^{FO}			
10 Hz to 44 Hz	0.2 A to 2.02 A	1.37 mA + 0.077 % of reading		
45 kHz to 2 kHz	0.2 A to 2.02 A	0.84 mA + 0.034 % of reading		
Equipment to Measure A At the Listed Frequencie	AC Current es ^{FO}			
30 Hz to 44 Hz	2 A to 30 A	10.89 mA + 0.009 % of reading]	
45 Hz to 99 Hz	2 A to 30 A	4.64 mA + 0.004 1 % of reading]	
100 kHz to 1 kHz	2 A to 30 A	131.14 mA + 0.16% of reading]	



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Equipment to	0.1 Hz to 5 Hz	0.25 mHz + 0.000 28 % of reading	Transmille 25PPM	OEM Procedures
Measure	5 Hz to 50 Hz	1.44 mHz + 0.000 26 % of reading	Multi-Product	WEC-CP-DMM-1
Frequency	50 Hz to 500 Hz	11.83 mHz + 0.000 25 % of reading	Calibrator	WEC-CP-CLAMP-1 WEC-CP-MEGGER-1
	0.5 kHz to 5 kHz	0.27 Hz + 0.000 29 % of reading		WEC-CP-
	5 kHz to 50 kHz	1.44 Hz + 0.000 26 % of reading		RC/RTD/RDOUT1
	50 kHz to 500 kHz	12.68 Hz + 0.000 26 % of reading		WEC-CP-PROCESS-1
	0.5 MHz to 1 MHz	210.56 Hz + 0.044 % of reading		
Equipment to	$0.01 \ \Omega$ to $100 \ \Omega$	$0.89 \ \Omega + 0.000 \ 1 \ \% \text{ of reading}$	Fluke 8845A	OEM Procedures
Output Resistance	100 Ω to1 kΩ	$0.001 \ 6 \ k\Omega + 0.011 \ \%$ of reading		WEC-CP-DMM-1
	1 kΩ to 10 kΩ	$0.08 \text{ k}\Omega + 0.000 \text{ 3 \% of reading}$		WEC-CP-CLAMP-1 WEC-CP-MEGGER-1
	$10 \text{ k}\Omega$ to $100 \text{ k}\Omega$	$0.064 \ \Omega + 0.001 \ 3 \ \%$ of reading		WEC-CP-
	$0.1 \text{ M}\Omega$ to $1 \text{ M}\Omega$	$0.001 \ 2 \ M\Omega + 0.011 \ \% \text{ of reading}$		RC/RTD/RDOUT-1
	1 MΩ to 10 MΩ	$0.001 \ 2 \ M\Omega + 0.011 \ \%$ of reading	$\langle \rangle$	WEC-CP-PROCESS-1
Equipment to	Up To 1 Ω	6 mΩ	Transmille 25PPM Multi-Product Calibrator	OEM Procedures WEC-CP-DMM-1 WEC-CP-CLAMP-1 WEC-CP-MEGGER-1 WEC-CP-
Measure	1 Ω to 10 Ω	$5.89 \text{ m}\Omega + 0.001 1 \%$ of reading		
Wire Simulated)	10 Ω to 100 Ω	5.89 m Ω + 0.005 7 % of reading		
	$0.1 \text{ k}\Omega$ to $1 \text{ k}\Omega$	$47.63 \text{ m}\Omega + 0.004 6 \% \text{ of reading}$		
	1 kΩ to 10 kΩ	$0.48 \ \Omega + 0.004 \ 5 \ \% \ of reading$		RC/RTD/RDOUT-1
	10 kΩ to 100 kΩ	$4.82 \Omega + 0.004 5 \%$ of reading	1	WEC-CP-PROCESS-1
Equipment to	Up To 1 Ω	6 mΩ	Transmille 25PPM	OEM Procedures
Measure Registernee FO	1 Ω to 10 Ω	$2.4 \text{ m}\Omega + 0.002 3\%$ of reading	Multi-Product	WEC-CP-DMM-1
(2 Wire	10Ω to 100Ω	$6 \text{ m}\Omega + 0.005 7 \%$ of reading	Canorator	WEC-CP-MEGGER-1
Simulated)	$0.1 \text{ k}\Omega$ to $1 \text{ k}\Omega$	$13.37 \text{ m}\Omega + 0.000 54 \%$ of reading		WEC-CP-PWRSPLY-1
	1 kΩ to 10 kΩ	$475.81 \text{ m}\Omega + 0.004 6\%$ of reading		WEC-CP-
	$10 \text{ k}\Omega$ to $100 \text{ k}\Omega$	$1.31 \Omega + 0.000 025 \%$ of reading		WFC-CP-PROCESS-1
	$0.1 \text{ M}\Omega$ to $1 \text{ M}\Omega$	49.10 Ω + 0.011 % of reading		
	$1 \text{ M}\Omega$ to $10 \text{ M}\Omega$	$189.29 \ \Omega + 0.000 \ 6 \ \% \ of reading$		
	$10 \text{ M}\Omega$ to $100 \text{ M}\Omega$	$3.04 \text{ k}\Omega + 0.35 \%$ of reading		
	$0.1 \ \text{G}\Omega$ to $1 \ \text{G}\Omega$	$108.5 \text{ k}\Omega + 1.15 \%$ of reading		
Equipment to	-140 °C to 200 °C	0.19 °C		
Measure Type K Thermocouple ^{FO}	200 °C to 1 340 °C	0.48 °C		



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Equipment to	10.071 nF	1.2 nF	Transmille 25PPM	OEM Procedures
Measure Capacitance	19.973 nF	1.2 nF	Multi-Product	WEC-CP-DMM-1
(at fixed point)	50.61 nF	1.2 nF	Calibrator	WEC-CP-CLAMP-1 WEC-CP-MEGGER-1
	99.24 nF	1.2 nF		
	0.991 2 μF	4.8 nF		
	9.864 μF	74 nF		
Equipment to Output	0.1 mA to 100 mA	0.029 µA + 0.057 % of reading	Fluke 8845A	OEM Procedures
DC Current ^{FO}	0.1 mA to 1 mA	0.006 mA + 0.053 % of reading		WEC-CP-DMM-1
	1 mA to 10 mA	0.023 mA + 0.057 % of reading		WEC-CP-CLAMP-1 WEC-CP-MEGGER-1
	10 mA to 400 mA	0.007 mA + 0.057 % of reading		WEC-CP-PWRSPLY-1
	0.4 A to 1 A	0.006 A + 0.057 % of reading	1	WEC-CP-
	1 A to 3 A	0.023 A + 0.11 % of reading	\cap	RC/RTD/RDOUT-1 WFC-CP-PROCESS-1
	3A to 10 A	0.009 A + 0.17 % of reading		WEC CI TROCESS I
Equipment to Output A At the Listed Frequence	C Current ies ^{FO}			
5 Hz to10 Hz	0.01 mA to 10 mA	0.069 mA + 0.4 % of reading		
10 kHz to 5 kHz	0.01 mA to 10 mA	0.069 mA + 0.17 % of reading		
5 kHz to 10 kHz	0.01 mA to 10 mA	0.081 mA + 0.4 % of reading		
Equipment to Output A At the Listed Frequence	C Current ies ^{FO}	0	Fluke 8845A	OEM Procedures WEC-CP-DMM-1
5 Hz to 10 Hz	10 mA to 100 mA	0.046 mA + 0.35 % of reading		WEC-CP-CLAMP-1
10 kHz to 5 kHz	10 mA to 100 mA	0.047 mA + 0.12 % of reading		WEC-CP-MEGGER-1
5 kHz to 10 kHz	10 mA to 100 mA	0.29 mA + 0.23 % of reading		WEC-CP-
Equipment to Output A At the Listed Frequence	C Current ies ^{FO}			RC/RTD/RDOUT-1 WEC-CP-PROCESS-1
5 Hz to 10 Hz	100 mA to 400 mA	0.12 mA + 0.35 % of reading		
10 Hz to 1 kHz	100 mA to 400 mA	0.12 mA + 0.12 % of reading		
1 kHz to 10 kHz	100 mA to 400 mA	0.81 mA + 0.23 % of reading	1	
Equipment to Output A At the Listed Frequence	C Current ies ^{FO}	·]	
5 Hz to 10 Hz	0.4 A to 1A	0.056 A + 0.29 % of reading	1	
10 Hz to 5 kHz	0.4 A to 1A	0.047 A + 0.11 % of reading	1	
5 kHz to 10 kHz	0.4 A to 1A	0.81 A + 0.4 % of reading	1	



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Accreditation is granted to the facility to perform the following testing:

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Equipment to Output AC Current			Fluke 8845A	OEM Procedures
At the Listed Frequencies	FO			WEC-CP-DMM-1
5 Hz to10 Hz	1 A to 3A	0.069 A + 0.4 % of reading		WEC-CP-CLAMP-1
10 Hz to 5kHz	1 A to 3A	0.069 A + 0.17 % of reading		WEC-CP-MEGGER-1
5 kHz to 10 kHz	1 A to 3A	0.81 A + 0.4 % of reading		WEC-CP-
Equipment to Output AC	Current			RC/RTD/RDOUT-1
At the Listed Frequencies	FO			WEC-CP-PROCESS-1
5 Hz to 10 Hz	3 A to 10A	0.069 A + 0.4 % of reading		
10 Hz to 5 kHz	3 A to 10A	0.07 A + 0.17 % of reading		
Photo Tachometers	240 rpm to 60 000 rpm	0.34 rpm + 0.022 % of	Transmille	OEM Procedures
Rate of Rotation		reading	25PPM Multi-	WEC-CP-DMM-1
Electrical Simulation FO			Product	WEC-CP-CLAMP-1
Equipment to measure	0.1 A to 4 A 2 Turn	0.13 A	Calibrator with	WEC-CP-MEGGER-1
DC Current Coils ^{FO}	4 A to 60 A 2 Turn	0.38 A	Workstation	WEC-CP-
	0.1 A to 40 A 10 Turn	0.46 A	EA015	WEC-CP-TACH-1
	40 A to 300 A 10 Turn	1.7 A		WEC-CP-PROCESS-1
	0.1 A to 200 A 50 Turn	1.7 A		
	200 A to 1 500 A 50	5.5 A		
	Turn			
Equipment to measure	0.1 A to 4 A 2 Turn	0.13 A		
AC Current Coils 10	4 A to 60 A 2 Turn	0.38 A		
	0.1 A to 40 A 10 Turn	0.46 A		
	40 A to 300 A 10 Turn	1.7 A		
	0.1 A to 200 A 50 Turn	1.7 A		
	200 A to 1 500 A 50	5.5 A		
	Turn			

Mass, Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (+)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Small Capacity Scales & Balances ^{FO}	1 lb to 120 lb	0.12 lb	Class F Weights	OEM Procedures WEC-CP-SCALE-1



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Accreditation is granted to the facility to perform the following testing:

Mechanical				
MEASURED	RANGE	CALIBRATION AND	CALIBRATION	CALIBRATION
INSTRUMENT,	(AND SPECIFICATION	MEASUREMENT	EQUIPMENT AND	MEASUREMENT
QUANTITY OR GAUGE	WHERE APPROPRIATE)	CAPABILITY EXPRESSED	REFERENCE	METHOD OR
		AS AN UNCERTAINTY (±)	STANDARDS USED	PROCEDURES USED
Equipment to Output	0.5 lbf•in to 750 lbf•ft	0.35 lbf•ft + 0.55 % of reading	Torque Transducer	OEM Procedures
Torque ^{FO}			Norbar Smart Cell	WEC-CP-
	0.5 lbf•in to 50 lbf•in	0.54 lbf•in + 0.23 % of reading	Torque Analyzer	TWRENCH-1
			Mountz TTL	
	50 lbf•in to 1 000 lbf•in	$0.37 \text{ lbf} \cdot \text{in} + 0.54 \%$ of reading	Torque Analyzer	
		_	AWS TT30100-ER	
Equipment to Measure	5 psi to 10 000 psig	0.075 % + 0.072 psig of	Dead Weight Tester	OEM Procedures
Pressure FO		reading	Ashcroft 1305D-100	WEC-CP-PSI-1

Thermodynam	ic			
MEASURED INSTRUMENT,	RANGE (AND SPECIFICATION	CALIBRATION AND MEASUREMENT	CALIBRATION EQUIPMENT AND	CALIBRATION MEASUREMENT
QUANTITY OR GAUGE	WHERE APPROPRIATE)	CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	REFERENCE STANDARDS USED	METHOD OR PROCEDURES USED
Equipment to Measure	29 to 37 % RH	1.1 % RH	Saturated Salts	OEM Procedures
Humidity ^{FO}	71 to 79 % RH	1.1 % RH	Magnesium Chloride,	WEC-CP-RH-
(at fixed point)			Sodium Chloride with a	TEMP-RCRD-1
			Digital Hygrometer	
Equipment to Generate	-20 °C to 260 °C	0.27 °C	PRT Omega PRTF-10-	OEM Procedures
Temperature ^{FO}			2-100-1/4-6-E	WEC-CP-TEMP-
				GENRT-1
Equipment to Measure	50 °C to 650 °C	1.17 °C + 0.067 % of	PRT Omega PRTF-10-	OEM Procedures
Temperature FO		reading	2-100-1/4-6-E with Dry	WEC-CP-TEMP-
			well Fluke 9141EZT	MSR-1

- The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation
 represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less
 routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence
 level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a
 specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration
 since capability and performance of the device being calibrated and the conditions related to the calibration may
 reasonably be expected to deviate from ideal to some degree.
- 2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
- 3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location.
- 4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations.

This supplement is in conjunction with certificate #L24-506



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- 5. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.
- 6. The term L represents length in inches or millimeters as appropriate to the uncertainty statement

