



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

TESCO-The Eastern Specialty Company

925 Canal Street, Bristol, PA 19007

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

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Electrical and Time & Frequency Calibration ***(As detailed in the supplement)***

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

April 11, 2019

Issue Date:

April 28, 2026

Expiration Date:

April 28, 2028

Accreditation No.:

101105

Certificate No.:

L26-360

*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: www.pjllabs.com*



Certificate of Accreditation: Supplement

TESCO-The Eastern Specialty Company

925 Canal Street, Bristol, PA 19007

Contact Name: Carson Scaccetti Phone: 609-752-1238

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (\pm) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Watt-Hour Standards (@ 0.01 A to 2 A unity)	10 mW to 2.016 kW	63 μ W/W + 0.19 mW	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Watt-Hour Standards (@ 2 A to 21 A unity)	2.016 mW to 21.168 kW	55 μ W/W + 21 mW	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Watt-Hour Standards (@ 21 A to 80 A unity)	21.168 kW to 80.64 kW	84 μ W/W + 30 mW	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Watt-Hour Standards (@ 0.01 A to 2 A) (@ 60 degrees lag)	10 mW to 2.016 kW	97 μ W/W + 0.21 mW	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Watt-Hour Standards (@ 2 A to 21 A) (@ 60 degrees lag)	2.016 W to 21.168 kW	100 μ W/W + 12 mW	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Watt-Hour Standards (@ 21 A to 80 A) (@ 60 degrees lag)	21.168 kW to 80.64 kW	110 μ W/W + 20 mW	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 0.25 A to 21 A) (@ 16 Hz to 45 Hz)	Up to 360°	0.003°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 0.25 A to 21 A) (@ 45 Hz to 65 Hz)	Up to 360°	0.002 3°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 0.25 A to 21 A) (@ 65 Hz to 69 Hz)	Up to 360°	0.003°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Output AC Current Phase (@ 0.25 A to 21 A) (@ 69 Hz to 180 Hz)	Up to 360°	0.007°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 0.25 A to 21 A) (@ 180 Hz to 450 Hz)	Up to 360°	0.018°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 0.25 A to 21 A) (@ 450 Hz to 850 Hz)	Up to 360°	0.033°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 0.25 A to 21 A) (@ 850 Hz to 3 kHz)	Up to 360°	0.115°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 0.25 A to 21 A) (@ 3 kHz to 6 kHz)	Up to 360°	0.23°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 21 A to 80 A) (@ 16 Hz to 69 Hz)	Up to 360°	0.003°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 21 A to 80 A) (@ 69 Hz to 180 Hz)	Up to 360°	0.008°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Output AC Current Phase (@ 21 A to 80 A) (@ 180 Hz to 450 Hz)	Up to 360°	0.025°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 21 A to 80 A) (@ 450 Hz to 850 Hz)	Up to 360°	0.05°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current Phase (@ 21 A to 80 A) (@ 850 Hz to 3 kHz)	Up to 360°	0.003°	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 16 Hz to 45 Hz)	0.1 V to 90 V	60 μ V/V + 0.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	0.1 V to 90 V	42 μ V/V + 0.2 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 65 Hz to 850 Hz)	0.1 V to 90 V	60 μ V/V + 0.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 16 Hz to 45 Hz)	90 V to 180 V	60 μ V/V + 0.16 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	90 V to 180 V	44 μ V/V + 0.16 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 65 Hz to 850 Hz)	90 V to 180 V	60 μ V/V + 0.16 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Output AC Voltage (@ 16 Hz to 45 Hz)	180 V to 215 V	61 μ V/V + 3.2 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	180 V to 215 V	61 μ V/V + 3.2 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 65 Hz to 850 Hz)	180 V to 215 V	61 μ V/V + 3.2 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	215 V to 246 V	44 μ V/V + 0.16 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 16 Hz to 45 Hz)	246 V to 425 V	61 μ V/V + 5.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	246 V to 425 V	61 μ V/V + 5.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 65 Hz to 850 Hz)	246 V to 425 V	61 μ V/V + 5.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	425 V to 490 V	44 μ V/V + 5.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 16 Hz to 45 Hz)	490 V to 740 V	61 μ V/V + 5.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	490 V to 740 V	61 μ V/V + 5.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Output AC Voltage (@ 65 Hz to 850 Hz)	490 V to 740 V	61 μ V/V + 5.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	740 V to 850 V	44 μ V/V + 5.8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 16 Hz to 45 Hz)	850 V to 1 008 V	61 μ V/V + 10 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 65 Hz)	850 V to 1 008 V	61 μ V/V + 10 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage (@ 65 Hz to 850 Hz)	850 V to 1 008 V	61 μ V/V + 10 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz)	0.01 A to 0.1 A	60 μ A/A + 5 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 16 Hz to 45 Hz)	0.1 A to 0.25 A	60 μ A/A + 5 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz)	0.1 A to 0.25 A	46 μ A/A + 2.5 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 65 Hz to 850 Hz)	0.1 A to 0.25 A	60 μ A/A + 5 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 16 Hz to 45 Hz)	0.5 A to 1 A	61 μ A/A + 10 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz)	0.5 A to 1 A	47 μ A/A + 6 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 65 Hz to 850 Hz)	0.5 A to 1 A	61 μ A/A + 10 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 16 Hz to 45 Hz)	1 A to 2 A	61 μ A/A + 40 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz)	1 A to 2 A	46 μ A/A + 20 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 65 Hz to 850 Hz)	1 A to 2 A	61 μ A/A + 40 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 16 Hz to 45 Hz)	2 A to 5 A	64 μ A/A + 100 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz)	2 A to 5 A	49 μ A/A + 50 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 65 Hz to 850 Hz)	2 A to 5 A	64 μ A/A + 100 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 16 Hz to 45 Hz)	5 A to 10 A	65 μ A/A + 200 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz)	5 A to 10 A	49 μ A/A + 100 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Output AC Current (@ 65 Hz to 850 Hz)	5 A to 10 A	65 μ A/A + 200 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 16 Hz to 45 Hz)	10 A to 21 A	69 μ A/A + 400 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz)	10 A to 21 A	49 μ A/A + 200 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 65 Hz to 850 Hz)	10 A to 21 A	69 μ A/A + 400 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 40 Hz to 450 Hz)	21 A to 80 A	106 μ A/A + 2 800 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Current (@ 450 Hz to 850 Hz)	21 A to 80 A	118 μ A/A + 2 800 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output AC Voltage Sin wave (@ 0.001 Hz to 100 Hz)	0.1 V to 3.535 V	3.8 mV/V	HP 3325A opt.	WI-00-10-010	F1, F3	F
Electrical	Equipment to Output AC Voltage Sin wave (@ 100 Hz to 100 kHz)	0.1 V to 3.535 V	2.7 mV/V	HP 3325A opt.	WI-00-10-010	F1, F3	F
Electrical	Equipment to Output AC Voltage Square wave (@ 0.001 Hz to 100 Hz)	0.1 V to 5 V	2.2 mV/V	HP 3325A opt.	WI-00-10-010	F1, F3	F



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Electrical	Equipment to Output AC Voltage Square wave (@ 100 Hz to 100 kHz)	0.1 to 5 V	4.5 mV/V	HP 3325A opt.	WI-00-10-010	F1, F3	F
Electrical	Equipment to Output AC Voltage Triangle wave (@ 0.001 Hz to 100 Hz)	0.1 V to 2.88 V	1.4 mV/V	HP 3325A opt.	WI-00-10-010	F1, F3	F
Electrical	Equipment to Output AC Voltage Triangle wave (@ 0.01 Hz to 1.9 kHz)	0.1 V to 2.88 V	1.7 mV/V	HP 3325A opt.	WI-00-10-010	F1, F3	F
Electrical	Equipment to Output AC Voltage Triangle wave (@ 1.9 kHz to 10 kHz)	0.1 V to 2.88 V	0.15 mV/V	HP 3325A opt.	WI-00-10-010	F1, F3	F
Electrical	Equipment to Output AC High Voltage (@ 60 Hz)	1 000 V to 4 200 V	0.12 mV/V	1G2-S8	WI-00-10-004	F1, F3	F
Electrical	Equipment to Output AC High Voltage (@ 60 Hz)	4 200 V to 4 800 V	0.37 mV/V	1G2-S8	WI-00-10-004	F1, F3	F
Electrical	Equipment to Output AC High Voltage (@ 60 Hz)	4 800 V to 8 400 V	0.14 mV/V	1G2-S8	WI-00-10-004	F1, F3	F
Electrical	Equipment to Output AC High Voltage (@ 60 Hz)	8 400 V to 14 400 V	0.16 mV/V	1G2-S8	WI-00-10-004	F1, F3	F



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Electrical	Equipment to Output AC High Current (@ 60 Hz)	1 A to 6 000 A	47 μ A/A	KCTS-8000	WI-19-10-021	F1, F3	F
Electrical	Equipment to Generate DC Voltage	10 nV to 220 mV	9 μ V/V + 0.5 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Voltage	220 mV to 2.2 V	6.2 μ V/V + 2.2 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Voltage	2.2 V to 11 V	9.1 μ V/V + 3 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Voltage	11 V to 22 V	11 μ V/V + 3 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Voltage	22 V to 220 V	12 μ V/V + 50 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Voltage	220 V to 1 100 V	8 μ V/V + 760 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate AC Voltage (@ 40 Hz to 20 kHz)	0.3 mV to 2.2 mV	100 μ V/V + 5 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate AC Voltage (@ 40 Hz to 20 kHz)	0.3 mV to 2.2 mV	230 μ V/V + 5 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate AC Voltage (@ 10 kHz to 50 kHz)	0.1 μ V to 1 000 V	0.044 6 % of reading + 50 μ V	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate Resistance	1 Ω to 10 Ω	0.004 56 % of reading	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate Resistance	10 Ω to 100 Ω	0.005 66 % of reading	Fluke 5730A	WI-00-10-030	F1, F3	F



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Electrical	Equipment to Generate Resistance	100 Ω to 1 k Ω	0.000 756 % of reading	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate Resistance	1 k Ω to 100 k Ω	0.001 97 % of reading	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate Resistance	100 k Ω to 10 M Ω	0.005 7 % of reading	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Current	10 μ A to 0.199 999 mA	21.6 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Current	0.199 999 mA to 1.999 99 mA	18.9 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Current	1.999 99 mA to 19.999 9 mA	38.2 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Current	19.999 9 mA to 199.999 mA	16.2 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate DC Current	199.999 mA to 1.999 99 A	86.6 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 50 Hz to 1 kHz)	10 μ A to 0.2 mA	842 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 50 Hz to 1 kHz)	0.2 mA to 2 mA	936 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 50 Hz to 1 kHz)	2 mA to 20 mA	864 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 50 Hz to 1 kHz)	20 mA to 200 mA	188 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F



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Electrical	Equipment to Generate AC Current (@ 50 Hz to 1 kHz)	200 mA to 1.999 99 A	636 μ A/A + 0.02 μ A	Fluke 5730A	WI-00-10-030	F1, F3	F
Electrical	Equipment to Generate Capacitance (@ 120 Hz)	0.000 1 μ F to 10 μ F	3.7 nF/ μ F + 7.3 pF	IET CS-301	WI-00-10-031	F1, F3	F
Electrical	Equipment to Generate Capacitance (@ 1 kHz)	10 μ F to 99.999 9 μ F	0.62 nf	IET CS-301	WI-00-10-031	F1, F3	F
Electrical	Equipment to Output DC Voltage	Up to 11.5 V	91 μ V/V + 2 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Voltage	11.5 V to 22.5 V	91 μ V/V + 4 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Voltage	22.5 V to 45 V	91 μ V/V + 8 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Voltage	45 V to 90 V	91 μ V/V + 16 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Voltage	90 V to 180 V	91 μ V/V + 32 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Voltage	180 V to 325 V	92 μ V/V + 60 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Voltage	325 V to 504 V	92 μ V/V + 100 mV	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Current	0.01 A to 0.25 A	89 μ A/A + 25 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Current	0.25 A to 0.5 A	89 μ A/A + 50 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Current	0.5 A to 1 A	89 μ A/A + 100 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Output DC Current	1 A to 2 A	89 μ A/A + 200 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Current	2 A to 5 A	89 μ A/A + 500 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Output DC Current	5 A to 10.5 A	89 μ A/A + 1 000 μ A	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 50 Hz)	1 A to 200 A	890 μ A/A + 0.11 A	Fluke 9100-200 Fluke 6105A opt 80A/e	WI-00-10-031	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 60 Hz)	1 A to 200 A	0.3 A	Fluke 9100-200 Fluke 6105A opt 80A/e	WI-00-10-031	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 400 Hz)	1 A to 200 A	13 mA/A + 0.2 A	Fluke 9100-200 Fluke 6105A opt 80A/e	WI-00-10-031	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 50 Hz)	200 A to 1 000 A	1.4 A	Fluke 9100-200 Fluke 6105A opt 80A/e	WI-00-10-031	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 60 Hz)	200 A to 1 000 A	3.5 A	Fluke 9100-200 Fluke 6105A opt 80A/e	WI-00-10-031	F1, F3	F
Electrical	Equipment to Generate AC Current (@ 400 Hz)	200 A to 500 A	4 600 μ A/A + 2.6 A	Fluke 9100-200 Fluke 6105A opt 80A/e	WI-00-10-031	F1, F3	F
Electrical	Equipment to Measure DC Voltage	10 μ V to 100 mV	1.9 μ mV/mV + 0.74 μ V	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Voltage	100 mV to 1 V	6.1 μ V/V + 0.22 μ V	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Measure DC Voltage	1 V to 10 V	5.7 μ V/V + 0.6 μ V	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Voltage	10 V to 100 V	20 μ V/V	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Voltage	100 V to 1 000 V	23 μ V/V	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Current	0.01 nA to 100 nA	40 μ A/A + 0.04 nA	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Current	100 nA to 1 μ A	30 μ A/A + 0.04 nA	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Current	1 μ A to 10 μ A	30 μ A/A + 0.1 nA	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Current	10 μ A to 100 μ A	30 μ A/A + 0.8 nA	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Current	100 μ A to 1 mA	30 μ A/A + 5 nA	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Current	1 mA to 10 mA	30 μ A/A + 0.05 μ A	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Current	10 mA to 100 mA	45 μ A/A + 0.5 μ A	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Current	100 mA to 1 A	115 μ A/A + 10 μ A	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Resistance	10 m Ω to 10 Ω	0.2 m Ω	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Resistance	10 Ω to 100 Ω	8.2 μ Ω / Ω + 48 μ Ω	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Resistance	100 Ω to 1 k Ω	9.4 μ Ω / Ω	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Measure DC Resistance	1 k Ω to 10 k Ω	5.9 $\mu\Omega/\Omega$ + 3.4 m Ω	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Resistance	10 k Ω to 100 k Ω	17 $\mu\Omega/\Omega$	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Resistance	100 k Ω to 1 M Ω	110 $\mu\Omega/\Omega$	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Resistance	1 M Ω to 10 M Ω	89 $\mu\Omega/\Omega$ + 21 Ω	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Resistance	10 M Ω to 100 M Ω	580 $\mu\Omega/\Omega$	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure DC Resistance	100 M Ω to 1 G Ω	7.5 m Ω/Ω	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Energy (Watt-Hour) (@ Up to 5 MHz)	Up to 1 MWh	10 mWh/VAh + 100 nWh	Fluke 6105A	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	Up to 100 μ A	4 000 μ A/A + 0.03 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	Up to 100 μ A	1 500 μ A/A + 0.03 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	Up to 100 μ A	600 μ A/A + 0.03 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 100 Hz to 5 kHz)	Up to 100 μ A	600 μ A/A + 0.03 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	100 μ A to 100 mA	4 000 μ A/A + 0.22 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	100 μ A to 100 mA	1 500 μ A/A + 0.02 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	100 μ A to 100 mA	600 μ A/A + 0.03 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 100 Hz to 5 kHz)	100 μ A to 100 mA	300 μ A/A + 0.02 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 5 kHz to 20 kHz)	100 μ A to 100 mA	600 μ A/A + 0.02 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 20 kHz to 50 kHz)	100 μ A to 100 mA	4 000 μ A/A + 0.04 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 50 kHz to 100 kHz)	100 μ A to 100 mA	5 500 μ A/A + 0.15 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	100 mA to 1 A	4 000 μ A/A + 0.22 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	100 mA to 1 A	1 500 μ A/A + 0.02 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F



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Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	100 mA to 1 A	600 μ A/A + 0.02 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 100 Hz to 5 kHz)	100 mA to 1 A	1 000 μ A/A + 0.02 % of range	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 1 kHz)	10 mV to 120 V	170 μ V/V + 1.1 μ V	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 20 kHz)	10 mV to 120 V	110 μ V/V + 2.6 μ V	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ >20 kHz to 50 kHz)	10 mV to 120 V	120 μ V/V + 2.4 μ V	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ >50 kHz to 100 kHz)	10 mV to 120 V	540 μ V/V + 38 μ V	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ >100 kHz to 300 kHz)	10 mV to 120 V	500 μ V/V + 4 mV	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ >300 kHz to 1 MHz)	>12 mV to 12 V	9.2 mV/V + 0.75 mV	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 1 kHz)	120 V to 7 00 V	170 μ V/V	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ >1 kHz to 20 kHz)	120 V to 7 00 V	330 μ V/V	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F



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Electrical	Equipment to Measure AC Voltage (@ >20 kHz to 50 kHz)	120 V to 7 00 V	330 μ V/V	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ >50 kHz to 100 kHz)	120 V to 7 00 V	280 μ V/V + 0.031 V	HP 3458A Opt 001 & 002	WI-00-10-032	F1, F3	F
Electrical	Equipment to Measure High AC Voltage (@ 60 Hz)	1 000 Vpk to 4 800 Vpk	3.1 mV/V	Fluke 80K-6 HP 3458A	WI-00-10-034	F1, F3	F
Electrical	Equipment to Measure High AC Voltage (@60 Hz)	4 800 Vpk to 14 400 Vpk	0.03 V/V	Fluke 80K-15 HP 3458A	WI-00-10-034	F1, F3	F
Electrical	Equipment to Measure High AC Voltage (@ 60 Hz)	14 000 Vpk to 40 000 Vpk	0.02 V/V	Fluke 80K-15 HP 3458A	WI-00-10-034	F1, F3	F
Electrical	Equipment to Simulate Temperature Measurement for Thermocouple Type K	-190 °C to 1 350 °C	(0.13 °mK/°C·(x) + 624.7) °mK	Keithley 2015 THD	WI-00-10-011	F1, F3	F
Electrical	Equipment to Measure High AC Voltage Phase (@ 0.1 V to 36 000 V) (@ 60 Hz)	Up to 360°	0.17 mrad	KNOPP 1G2-S8, KATC-V2, 2J4, 2J6	WI-19-10-021	F1, F3	F
Electrical	Equipment to Measure Hi AC Voltage Ratio 60 Hz	0.1 V to 36 000 V	0.08 mV/V	KNOPP 1G2-S8, KATC-V2, 2J4, 2J6	WI-19-10-004	F1, F3	F
Electrical	Equipment to Measure Hi AC Current Amplitude (@ 60 Hz)	0.05 A to 12 000 A	0.08 mA/A	KNOPP KCTS-8000, KATC-C2	WI-19-10-021	F1, F3	F



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Electrical	Equipment to Measure Hi AC Current Ratio Error (@ 60 Hz)	0.05 A to 12 000 A	0.05 mA/A	KNOPP KCTS-8000, KATC-C2	WI-19-10-021	F1, F3	F
Electrical	Equipment to Measure High AC Current Phase Angle (@ 0.05 A to 12 000 A) (@ 60 Hz)	Up to 360°	0.19 mrad	KNOPP KCTS-8000, KATC-C2	WI-19-10-021	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 60 Hz)	0.2 A to 20 A	59 μ A/A + 13 μ A	TESCO ACT-100	WI-19-10-040	F1, F3	F
Electrical	Equipment to Measure AC Current (@ 60 Hz)	20 A to 80 A	100 μ A/A + 3.9 mA	TESCO ACT-100	WI-19-10-040	F1, F3	F
Electrical	Equipment to Measure AC Voltage (@ 60 Hz)	60 V to 500 V	60 μ V/V	TESCO ACT-100	WI-19-10-040	F1, F3	F
Electrical	Equipment to Measure AC Energy Phase (@ 60 V to 500 V) (@ 0.2 A to 80 A)	Up to 360°	0.008 °	TESCO ACT-100	WI-19-10-040	F1, F3	F
Electrical	Equipment to Measure DC Energy Voltage	60 V to 1 000 V	55 μ V/V + 6 mV	TESCO DCT-350	WI 19-10-039	F1, F3	F
Electrical	Equipment to Measure DC Energy Current	10 A to 200 A	71 μ A/A + 5.9 mA	TESCO DCT-350	WI 19-10-039	F1, F3	F
Electrical	Equipment to Measure DC Energy Current	200 A to 600 A	200 μ A/A	TESCO DCT-350	WI 19-10-039	F1, F3	F
Time and Frequency	Equipment to Measure Frequency	1 Hz to 1 MHz	6.1 μ Hz/Hz	Agilent 53181A	WI-00-10-012	F1, F3	F



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Time and Frequency	Equipment to Measure Frequency	0.1 Hz to 3 GHz	2.1 μ Hz /Hz	Agilent 54181A	WI-00-10-012	F1, F3	F
Time and Frequency	Equipment to Generate AC Frequency	0.1 Hz to 20 MHz	41 μ Hz/Hz	HP 3325A	WI-00-10-010	F1, F3	F
Time and Frequency	Equipment to Output Frequency	16 Hz to 850 Hz	50 μ Hz/Hz + 10 μ Hz/Hz of range	Fluke 6105A opt 80A/e	WI-19-10-029	F1, F3	F
Time and Frequency	Equipment to Measure Frequency	1 Hz to 40 Hz	500 μ Hz/Hz	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Time and Frequency	Equipment to Measure Frequency	40 Hz to 10 MHz	100 μ Hz/Hz	HP 3458A opt 001 & 002	WI-19-10-029	F1, F3	F
Time and Frequency	Equipment to Measure AC Energy Time	1 s to 3 600 s	7.5 μ s/s	TESCO ACT-100	WI-19-10-040	F1, F3	F
Time and Frequency	Equipment to Measure DC Energy Time	1 s to 3 600 s	6.8 μ s/s	TESCO DCT-350	WI 19-10-039	F1, F3	F