

Schedule

Issue date: 28 July 2025
Valid Until: -



NO: SAMM 842

(Issue 2, 28 July 2025 replacement
of SAMM 842 dated 28 July 2025)

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LABORATORY LOCATION/ CENTRAL OFFICE:	Pusat Pembaikan dan Kalibrasi Zetro Sdn. Bhd. Lot 762, Lengkok Emas 1, Kawasan Perindustrian Nilai, 71800 Nilai, Negeri Sembilan , 71800, NEGERI SEMBILAN MALAYSIA
	
ACCREDITED SINCE :	28 JULY 2025
FIELD(S) OF CALIBRATION:	PRESSURE TORQUE DIMENSIONAL ELECTRICAL ELECTRICAL (LAB)

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

CENTRAL LOCATION	Pusat Pembaikan dan Kalibrasi Zetro Sdn. Bhd. Lot 762, Lengkok Emas 1, Kawasan Perindustrian Nilai, 71800 Nilai, Negeri Sembilan , 71800, Negeri Sembilan
FIELD(S) OF CALIBRATION :	PRESSURE, TORQUE, DIMENSIONAL, ELECTRICAL, ELECTRICAL

SCOPE OF CALIBRATION : PRESSURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Pressure Measuring Device Oil Medium	0 bar to 35 bar (0 psi to 500 psi)	0.025% of reading	Calibrated using Dead weight Tester based on BS EN 837-1, BS EN 837-3 & DKD-R 6-1 Ed 03/2014

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	35 bar to 700 bar (500 psi to 10,000 psi)	0.025% of reading	Calibrated using Dead weight Tester based on BS EN 837-1, BS EN 837-3 & DKD-R 6-1 Ed 03/2014
	0 bar to 1000 bar (0 psi to 15,000 psi)	0.25 bar	Calibrated using Pressure Calibrator based on BS EN 837-1, BS EN 873-3 & DKD-R 6-1 Ed 03/2014
Pressure Measuring Device Pneumatic Medium	0 bar to 1 bar	0.0006 bar	Calibrated using Pressure Calibrator based on BS EN 837-1, BS EN 873-3 & DKD-R 6-1 Ed 03/2014
	1 bar to 20 bar	0.005 bar	Calibrated using Pressure Calibrator based on BS EN 837-1, BS EN 873-3 & DKD-R 6-1 Ed 03/2014
Pressure Measuring Device Vacuum	Ambient to - 0.95 bar	0.001 bar	Calibrated using Pressure Calibrator based on BS EN 837-1, BS EN 873-3 & DKD-R 6-1 Ed 03/2014

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SCOPE OF CALIBRATION : TORQUE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Torque Hand Torque Tools	0 N.m to 22.6 N.m	0.13 N.m	Calibrated using Torque Calibrator based on ISO 6789 : 2017
	22.6 N.m to 136 N.m	0.5 N.m	Calibrated using Torque Calibrator based on ISO 6789 : 2017
	136 N.m to 814 N.m	2.8 N.m	Calibrated using Torque Calibrator based on ISO 6789 : 2017

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SCOPE OF CALIBRATION : DIMENSIONAL

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Dial Gauge / Indicator	Up to 25 mm	4 μ m	Calibrated using Calibration Tester based on JIS B 7503:2017

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SCOPE OF CALIBRATION : ELECTRICAL

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Measuring Instrument Dc Voltage	± 330 mV $\pm$ (0 mV to 330 mV)	26 μ V/V + 0.4 μ V	Calibrator Fluke 5520A
	± 3.3 V $\pm$ (0 V to 3.3 V)	13 μ V/V + 3 μ V	Calibrator Fluke 5520A
	± 33 V $\pm$ (0 V to 33 V)	14 μ V/V + 27 μ V	Calibrator Fluke 5520A
	± 330 V $\pm$ (0 V to 330 V)	21 μ V/V + 0.2 mV	Calibrator Fluke 5520A
	± 1000 V $\pm$ (100 V to 1000 V)	21 μ V/V + 1.8 mV	Calibrator Fluke 5520A
Measuring Instrument Ac Voltage	33 mV to 1020 V See Matrix A	See Matrix A	Calibrator Fluke 5520A
Measuring Instrument Dc Current	330 μ A $\pm$ (0 μ A to 330 μ A)	0.17 mA/A + 0.02 μ A	Calibrator Fluke 5520A
	3.3 mA $\pm$ (0 mA to 3.3 mA)	0.12 mA/A + 0.05 μ A	Calibrator Fluke 5520A
	33 mA $\pm$ (0 mA to 33 mA)	0.12 mA/A + 0.3 μ A	Calibrator Fluke 5520A
	330 mA $\pm$ (0 mA to 330 mA)	0.12 mA/A + 3 μ A	Calibrator Fluke 5520A
	1.1 A $\pm$ (0 A to 1.1 A)	0.23 mA/A + 47 μ A	Calibrator Fluke 5520A
	3 A $\pm$ (1.1 A to 3 A)	0.46 mA/A + 0.11 mA	Calibrator Fluke 5520A
	11 A $\pm$ (0 A to 11 A)	0.58 mA/A + 0.58 mA	Calibrator Fluke 5520A
	20.5 A $\pm$ (11 A to 20.5 A)	1.2 mA/A + 0.87 mA	Calibrator Fluke 5520A
Measuring Instrument Ac Current	290 μ A to 20.5 A See Matrix B	See Matrix B	Calibrator Fluke 5520A
Measuring Instrument Resistance (variable Value)	11 Ω (0 Ω to 11 Ω)	46 $\mu\Omega/\Omega$ + 1 m Ω	Calibrator Fluke 5520A
	33 Ω (11 Ω to 33 Ω)	35 $\mu\Omega/\Omega$ + 1.7 m Ω	Calibrator Fluke 5520A
	110 Ω (33 Ω to 110 Ω)	32 $\mu\Omega/\Omega$ + 1.6 m Ω	Calibrator Fluke 5520A
	330 Ω (110 Ω to 330 Ω)	32 $\mu\Omega/\Omega$ + 1.7 m Ω	Calibrator Fluke 5520A
	1.1 k Ω (330 k Ω to 1.1 k Ω)	32 $\mu\Omega/\Omega$ + 2 m Ω	Calibrator Fluke 5520A
	3.3 k Ω (1.1 k Ω to 3.3 k Ω)	32 $\mu\Omega/\Omega$ + 0.02 Ω	Calibrator Fluke 5520A

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	11 k Ω (3.3 k Ω to 11 k Ω)	32 $\mu\Omega/\Omega$ + 0.02 Ω	Calibrator Fluke 5520A
	33 k Ω (11 k Ω to 33 k Ω)	32 $\mu\Omega/\Omega$ + 0.2 Ω	Calibrator Fluke 5520A
	110 k Ω (33 k Ω to 110 k Ω)	32 $\mu\Omega/\Omega$ + 0.2 Ω	Calibrator Fluke 5520A
	330 k Ω (110 k Ω to 330 k Ω)	37 $\mu\Omega/\Omega$ + 8 Ω	Calibrator Fluke 5520A
	1.1 M Ω (330 k Ω to 1.1 M Ω)	37 $\mu\Omega/\Omega$ + 8 Ω	Calibrator Fluke 5520A
	3.3 M Ω (1.1 M Ω to 3.3 M Ω)	69 $\mu\Omega/\Omega$ + 58 Ω	Calibrator Fluke 5520A
	11 M Ω (3.3 M Ω to 11 M Ω)	0.15 m Ω/Ω + 81 Ω	Calibrator Fluke 5520A
	33 M Ω (11 M Ω to 33 M Ω)	0.25 m Ω/Ω + 3.1 k Ω	Calibrator Fluke 5520A
	110 M Ω (33 M Ω to 110 M Ω)	0.58 m Ω/Ω + 3.7 k Ω	Calibrator Fluke 5520A
	330 M Ω (110 M Ω to 330 M Ω)	3.5 m Ω/Ω + 0.1 M Ω	Calibrator Fluke 5520A
	1100 M Ω (330 M Ω to 1100 M Ω)	17 m Ω/Ω + 0.6 M Ω	Calibrator Fluke 5520A
Measuring Instrument Capacitance	0.4 nF (0.19 nF to 0.4 nF) 10 Hz to 10 kHz	5.7 mF/F + 0.01 nF	Calibrator Fluke 5520A
	1.1 nF (0.4 nF to 1.1 nF) 10 Hz to 10 kHz	5.7 mF/F + 0.01 nF	Calibrator Fluke 5520A
	3.3 nF (1.1 nF to 3.3 nF) 10 Hz to 3 kHz	5.8 mF/F + 0.01 nF	Calibrator Fluke 5520A
	11 nF (3.3 nF to 11 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.01 nF	Calibrator Fluke 5520A
	33 nF (11 nF to 33 nF) 10 Hz to 1 kHz	2.8 mF/F + 0.01 nF	Calibrator Fluke 5520A
	110 nF (33 nF to 110 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.1 nF	Calibrator Fluke 5520A
	330 nF (110 nF to 330 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.3 nF	Calibrator Fluke 5520A

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	1.1 μ F (0.4 μ F to 1.1 μ F) 10 Hz to 600 Hz	2.9 mF/F + 1 nF	Calibrator Fluke 5520A
	3.3 μ F (1.1 μ F to 3.3 μ F) 10 Hz to 300 Hz	2.9 mF/F + 3 nF	Calibrator Fluke 5520A
	11 μ F (3.3 μ F to 11 μ F) 10 Hz to 150 Hz	2.9 mF/F + 12 nF	Calibrator Fluke 5520A
	33 μ F (11 μ F to 33 μ F) 10 Hz to 120 Hz	4.6 mF/F + 35 nF	Calibrator Fluke 5520A
	110 μ F (33 μ F to 110 μ F) 10 Hz to 80 Hz	5.2 mF/F + 0.12 μ F	Calibrator Fluke 5520A
	330 μ F (110 μ F to 330 μ F) 0 Hz to 50 Hz	5.2 mF/F + 0.35 μ F	Calibrator Fluke 5520A
	1.1 mF (0.33 mF to 1.1 mF) 0 Hz to 20 Hz	5.2 mF/F + 1 μ F	Calibrator Fluke 5520A
	3.3 mF (1.1 mF to 3.3 mF) 0 Hz to 6 Hz	5.2 mF/F + 3.5 μ F	Calibrator Fluke 5520A
	11 mF (3.3 mF to 11 mF) 0 Hz to 2 Hz	5.2 mF/F + 12 μ F	Calibrator Fluke 5520A
Measuring Instrument Frequency	33 mF (11 mF to 33 mF) 0 Hz to 0.6 Hz	8.7 mF/F + 35 μ F	Calibrator Fluke 5520A
	1 μ Hz to 1 MHz (1mVp-p to 10 Vp-p)	38 μ Hz	HP 3325 B Reference to Rubidium Fluke PM6685R
	1 MHz to 20 MHz (1mVp-p to 10 Vp-p)	0.58 mHz	HP 3325 B Reference to Rubidium Fluke PM6685R
Measuring Instrument Amplitude/level	10 MHz to 26.5 GHz (-110 dBm to 20 dBm)	58 mHz	Giga Tronics 2426B Reference to Rubidium Fluke PM6685R
	1 mVp-p to 10 mVp-p (1 μ Hz to 20 MHz)	3.6 μ Vp-p/Vp-p	HP 3325B
	10 mVp-p to 100 mVp-p (1 μ Hz to 20 MHz)	36 μ Vp-p/Vp-p	HP 3325B

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	0.1 Vp-p to 1 Vp-p (1 μ Hz to 20 MHz)	0.36 mVp-p/Vp-p	HP 3325B
	1 Vp-p to 10 Vp-p (1 μ Hz to 20 MHz)	3.6 mVp-p/Vp-p	HP 3325B
	-110 dBm to -10 dBm (10 MHz to 20 GHz)	1.4 dBm	Giga Tronics 2426B
	-10 dBm to -5 dBm (10 MHz to 20 GHz)	0.81 dBm	Giga Tronics 2426B
	5 dBm to 20 dBm (10 MHz to 20 GHz)	0.98 dBm	Giga Tronics 2426B
Measuring Instrument Tachometer (non -" Contact)	60 to 100 rpm	0.0005 rpm/rpm + 0.002 rpm	In House Method
	101 rpm to 999 rpm	0.0005 rpm/rpm + 0.01 rpm	In House Method
	1000 rpm to 9999 rpm	0.0005 rpm/rpm + 2.1 rpm	In House Method
	10000 rpm to 99999 rpm	0.0005 rpm/rpm + 0.3 rpm	In House Method
Measuring Instrument Risetime	(? 300 ps)	0.12 ns	Calibrator Fluke 5520A
Oscilloscope Vertical Deflection Dc Signal	6.6 V (50 Ω Load) $\pm$ (0 V to 6.6 V)	2.9 mV/V + 0.04 mV	Calibrator Fluke 5520A
	130 V (1 M Ω Load) $\pm$ (0 V to 130 V)	0.59 mV/V + 0.03 mV	Calibrator Fluke 5520A
Vertical Deflection Square Wave Signal	6.6 Vp-p (50 Ω Load) (1 mVp-p to 6.6 Vp-p)	2.9 mVp-p/Vp-p + 0.04 mVp-p	Calibrator Fluke 5520A
	130 Vp-p (1 M Ω Load) (1 mVp-p to 130 Vp-p)	0.59 mVp-p/Vp-p + 0.03 mVp-p	Calibrator Fluke 5520A
Horizontal Deflection Time Markers	(50 Ω Load) 20 ns/div to 20 ms/div	2.5 μ s/s	Calibrator Fluke 5520A
	(50 Ω Load) 50 ms/div to 5 s/div	(25+(Output X 1000)) μ s/s	Calibrator Fluke 5520A
Bandwidth Frequency	50 kHz to 600 MHz	2.5 μ Hz/Hz	Calibrator Fluke 5520A
Bandwidth Amplitude	5 mVp-p to 5.5 Vp-p 50 kHz to 100 MHz	35 mVp-p/Vp-p + 0.3 mVp-p	Calibrator Fluke 5520A
	5 mVp-p to 5.5 Vp-p 100 MHz to 300 MHz	40 mVp-p/Vp-p + 0.3 mVp-p	Calibrator Fluke 5520A
Sourcing/generating Instrument Dc Voltage	$\pm$ 200 mV $\pm$ (100 μ V to 199.99 mV)	5.7 μ V/V + 0.1 μ V	Multimeter Fluke 8508A
	$\pm$ 2 V $\pm$ (0.2 V to 1.9999 V)	4.0 μ V/V + 0.5 μ V	Multimeter Fluke 8508A

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	± 20 V $\pm$ (2 V to 19.999 V)	4.0 μ V/V + 5.4 μ V	Multimeter Fluke 8508A
	± 200 V $\pm$ (20 V to 199.99 V)	6.3 μ V/V + 52 μ V	Multimeter Fluke 8508A
	± 1000 V $\pm$ (200 V to 1050 V)	6.3 μ V/V + 68 μ V	Multimeter Fluke 8508A
Sourcing/generating Instrument Ac Voltage	100 μ V to 1050 V See Matrix C	See Matrix C	Multimeter Fluke 8508A
Sourcing/generating Instrument Dc Current	200 μ A (0.1 μ A to 199.99 μ A)	13 μ A/A + 0.6 nA	Multimeter Fluke 8508A
	2 mA (0.2 mA to 199.99 mA)	13 μ A/A + 0.006 μ A	Multimeter Fluke 8508A
	20 mA (2 mA to 19.999 mA)	16 μ A/A + 0.06 μ A	Multimeter Fluke 8508A
	200 mA (20 mA to 199.99 mA)	55 μ A/A + 0.98 μ A	Multimeter Fluke 8508A
	2 A (0.2 A to 1.9999 A)	0.21 mA/A + 18 μ A	Multimeter Fluke 8508A
	20 A (2 A to 19.999 μ A)	0.46 mA/A + 0.46 mA	Multimeter Fluke 8508A
Sourcing/generating Instrument Ac Current	0.1 μ A to 20 A See Matrix D	See Matrix D	Multimeter Fluke 8508A
Sourcing/generating Instrument Resistance	2 Ω (0 Ω to 1.9999 Ω)	19 $\mu\Omega/\Omega$ + 6 $\mu\Omega$	Multimeter Fluke 8508A
	20 Ω (2 Ω to 19.999 Ω)	11 $\mu\Omega/\Omega$ + 17 $\mu\Omega$	Multimeter Fluke 8508A
	200 Ω (20 Ω to 199.99 Ω)	9 $\mu\Omega/\Omega$ + 62 $\mu\Omega$	Multimeter Fluke 8508A
	2 k Ω (0.2 k Ω to 1.9999 k Ω)	9 $\mu\Omega/\Omega$ + 0.62 m Ω	Multimeter Fluke 8508A
	20 k Ω (2 k Ω to 19.999 Ω)	9 $\mu\Omega/\Omega$ + 6.2 m Ω	Multimeter Fluke 8508A
	200 k Ω (20 k Ω to 199.99 k Ω)	9 $\mu\Omega/\Omega$ + 61 m Ω	Multimeter Fluke 8508A
	2 M Ω (0.2 M Ω to 1.9999 M Ω)	10 $\mu\Omega/\Omega$ + 1.2 Ω	Multimeter Fluke 8508A
	20 M Ω (2 M Ω to 19.999 M Ω)	23 $\mu\Omega/\Omega$ + 0.12 k Ω	Multimeter Fluke 8508A
	200 M Ω (20 M Ω to 199.99 M Ω)	0.14 m Ω/Ω + 12 k Ω	Multimeter Fluke 8508A

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	2 G _m ^I (0.2G _m ^I to 1.9999 G _m ^I)	1.7 m _m ^I / _m ^I + 1.2 M _m ^I	Multimeter Fluke 8508A
Sourcing/generating Instrument Frequency	1 Hz to 300 MHz	64 pHz/Hz + 11 uHz	Fluke PM6685R(Rubidium)
	100 MHz to 26.5 GHz	0.58 Hz	EIP 548 A Reference to Fluke PM6685R (Rubidium)
Sourcing/generating Instrument Amplitude/level	-20 dBm to 30 dBm (100 kHz to 2.6 GHz)	0.19 dBm	HP 8902 with HP11722A
	-30 dBm to 30 dBm (2.6 GHz to 18 GHz)	0.35 dBm	Agilent E44188 with HP8481A
	-30 dBm to 30 dBm (18 GHz to 26.5 GHz)	0.35 dBm	Agilent E44188 with HP8485A
Sourcing/generating Instrument Frequency Modulation (fm)	20 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.24 kHz	HP 8902 with HP 11722 A
		0.13 kHz	
	50 Hz to 100 kHz (Carrier 10 MHz to 1300 MHz)	0.59 kHz	
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)		
Sourcing/generating Instrument Amplitude Modulation (am)	20 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.24 %	HP 8902 with HP 11722 A
		0.36 %	
	50 Hz to 100 kHz (Carrier 10 MHz to 1300 MHz)	0.13 %	
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)		

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Sourcing/generating Instrument Phase Modulation (fm)	200 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.20 Radians	HP 8902 with HP 11722 A
	200 Hz to 20 kHz (Carrier 10 MHz to 1300 MHz)	0.15 Radians	
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)	0.13 %	
Sourcing/generating Instrument Distortion	Fundamental Frequency 20 Hz to 20 kHz	1 dB	HP8903A
	Fundamental Frequency 20 Hz to 20 kHz	2 dB	
Sourcing/generating Instrument Rpm (non -" Contact)	60 to 100 rpm	0.0005 rpm/rpm + 0.002 rpm	In House Method
	101 rpm to 999 rpm	0.0005 rpm/rpm + 0.02 rpm	In House Method
	1000 rpm to 9999 rpm	0.0005 rpm/rpm + 0.2 rpm	In House Method
	10000 rpm to 99999 rpm	0.0005 rpm/rpm + 2 rpm	In House Method

SCOPE OF CALIBRATION : ELECTRICAL (LAB)

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Measuring Instrument Dc Voltage	± 330 mV $\pm$ (0 mV to 330 mV)	26 μ V/V + 0.4 μ V	Calibrator Fluke 5520A
	± 3.3 V $\pm$ (0 V to 3.3 V)	13 μ V/V + 3 μ V	Calibrator Fluke 5520A
	± 33 V $\pm$ (0 V to 33 V)	14 μ V/V + 27 μ V	Calibrator Fluke 5520A
	± 330 V $\pm$ (0 V to 330 V)	21 μ V/V + 0.2 mV	Calibrator Fluke 5520A
	± 1000 V $\pm$ (100 V to 1000 V)	21 μ V/V + 1.8 mV	Calibrator Fluke 5520A

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Measuring Instrument Ac Voltage	33 mV to 1020 V See Matrix A	See Matrix A	Calibrator Fluke 5520A
Measuring Instrument Dc Current	330 μ A $\pm$ (0 μ A to 330 μ A)	0.17mA/A + 0.02 μ A	Calibrator Fluke 5520A
	3.3 mA $\pm$ (0 mA to 3.3 mA)	0.12 mA/A + 0.05 μ A	Calibrator Fluke 5520A
	33 mA $\pm$ (0 mA to 33 mA)	0.12 mA/A + 0.3 μ A	Calibrator Fluke 5520A
	330 mA $\pm$ (0 mA to 330 mA)	0.12 mA/A + 3 μ A	Calibrator Fluke 5520A
	1.1 A $\pm$ (0 A to 1.1 A)	0.23 mA/A + 47 μ A	Calibrator Fluke 5520A
	3 A $\pm$ (1.1 A to 3 A)	0.46 mA/A + 0.11 mA	Calibrator Fluke 5520A
	11 A $\pm$ (0 A to 11 A)	0.58 mA/A + 0.58 mA	Calibrator Fluke 5520A
	20.5 A $\pm$ (11 A to 20.5 A)	1.2 mA/A + 0.87 mA	Calibrator Fluke 5520A
Measuring Instrument Ac Current	290 μ A to 20.5 A See Matrix B	See Matrix B	Calibrator Fluke 5520A
Measuring Instrument Resistance (variable Value)	11 Ω (0 Ω to 11 Ω)	46 $\mu\Omega/\Omega$ + 1 m Ω	Calibrator Fluke 5520A
	33 Ω (11 Ω to 33 Ω)	35 $\mu\Omega/\Omega$ + 1.7 m Ω	Calibrator Fluke 5520A
	110 Ω (33 Ω to 110 Ω)	32 $\mu\Omega/\Omega$ + 1.6 m Ω	Calibrator Fluke 5520A
	330 Ω (110 Ω to 330 Ω)	32 $\mu\Omega/\Omega$ + 1.7 m Ω	Calibrator Fluke 5520A
	1.1 k Ω (330k Ω to 1.1 k Ω)	32 $\mu\Omega/\Omega$ + 2 m Ω	Calibrator Fluke 5520A
	3.3 k Ω (1.1 k Ω to 3.3 k Ω)	32 $\mu\Omega/\Omega$ + 0.02 Ω	Calibrator Fluke 5520A
	11 k Ω (3.3 k Ω to 11 k Ω)	32 $\mu\Omega/\Omega$ + 0.02 Ω	Calibrator Fluke 5520A
	33 k Ω (11 k Ω to 33 k Ω)	32 $\mu\Omega/\Omega$ + 0.2 Ω	Calibrator Fluke 5520A
	110 k Ω (33 k Ω to 110 k Ω)	32 $\mu\Omega/\Omega$ + 0.2 Ω	Calibrator Fluke 5520A
	330 k Ω (110 k Ω to 330 k Ω)	37 $\mu\Omega/\Omega$ + 8 Ω	Calibrator Fluke 5520A
	1.1 M Ω (330 k Ω to 1.1 M Ω)	37 $\mu\Omega/\Omega$ + 8 Ω	Calibrator Fluke 5520A
	3.3 M Ω (1.1 M Ω to 3.3 M Ω)	69 $\mu\Omega/\Omega$ + 58 Ω	Calibrator Fluke 5520A
	11 M Ω (3.3 M Ω to 11 M Ω)	0.15 m Ω/Ω + 81 Ω	Calibrator Fluke 5520A

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	33 M Ω (11 M Ω to 33 M Ω)	0.25 m Ω / Ω + 3.1 k Ω	Calibrator Fluke 5520A
	110 M Ω (33 M Ω to 110 M Ω)	0.58 m Ω / Ω + 3.7 k Ω	Calibrator Fluke 5520A
	330 M Ω (110 M Ω to 330 M Ω)	3.5 m Ω / Ω + 0.1 M Ω	Calibrator Fluke 5520A
	1100 M Ω (330 M Ω to 1100 M Ω)	17 m Ω / Ω + 0.6 M Ω	Calibrator Fluke 5520A
Measuring Instrument Capacitance	0.4 nF (0.19 nF to 0.4 nF) 10 Hz to 10 kHz	5.7 mF/F + 0.01 nF	Calibrator Fluke 5520A
	1.1 nF (0.4 nF to 1.1 nF) 10 Hz to 10 kHz	5.7 mF/F + 0.01 nF	Calibrator Fluke 5520A
	3.3 nF (1.1 nF to 3.3 nF) 10 Hz to 3 kHz	5.8 mF/F + 0.01 nF	Calibrator Fluke 5520A
	11 nF (3.3 nF to 11 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.01 nF	Calibrator Fluke 5520A
	33 nF (11 nF to 33 nF) 10 Hz to 1 kHz	2.8 mF/F + 0.01 nF	Calibrator Fluke 5520A
	110 nF (33 nF to 110 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.1 nF	Calibrator Fluke 5520A
	330 nF (110 nF to 330 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.3 nF	Calibrator Fluke 5520A
	1.1 μ F (0.4 μ F to 1.1 μ F) 10 Hz to 600 Hz	2.9 mF/F + 1 nF	Calibrator Fluke 5520A
	3.3 μ F (1.1 μ F to 3.3 μ F) 10 Hz to 300 Hz	2.9 mF/F + 3 nF	Calibrator Fluke 5520A
	11 μ F (3.3 μ F to 11 μ F) 10 Hz to 150 Hz	2.9 mF/F + 12 nF	Calibrator Fluke 5520A
	33 μ F (11 μ F to 33 μ F) 10 Hz to 120 Hz	4.6 mF/F + 35 nF	Calibrator Fluke 5520A
	110 μ F (33 μ F to 110 μ F) 10 Hz to 80 Hz	5.2 mF/F + 0.12 μ F	Calibrator Fluke 5520A

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	330 μ F (110 μ F to 330 μ F) 0 Hz to 50 Hz	5.2 mF/F + 0.35 μ F	Calibrator Fluke 5520A
	1.1 mF (0.33 mF to 1.1 mF) 0 Hz to 20 Hz	5.2 mF/F + 1 μ F	Calibrator Fluke 5520A
	3.3 mF (1.1 mF to 3.3 mF) 0 Hz to 6 Hz	5.2 mF/F + 3.5 μ F	Calibrator Fluke 5520A
	11 mF (3.3 mF to 11 mF) 0 Hz to 2 Hz	5.2 mF/F + 12 μ F	Calibrator Fluke 5520A
	33 mF (11 mF to 33 mF) 0 Hz to 0.6 Hz	8.7 mF/F + 35 μ F	Calibrator Fluke 5520A
Measuring Instrument Frequency	1 μ Hz to 1 MHz (1mVp-p to 10 Vp-p)	38 μ Hz	HP 3325 B Reference to Rubidium Fluke PM6685R
	1 MHz to 20 MHz (1mVp-p to 10 Vp-p)	0.58 mHz	HP 3325 B Reference to Rubidium Fluke PM6685R
	10 MHz to 26.5 GHz (-110 dBm to 20 dBm)	58 mHz	Giga Tronics 2426B Reference to Rubidium Fluke PM6685R
Measuring Instrument Amplitude/level	1 mVp-p to 10 mVp-p (1 μ Hz to 20 MHz)	3.6 μ Vp-p/Vp-p	HP 3325B
	10 mVp-p to 100 mVp-p (1 μ Hz to 20 MHz)	36 μ Vp-p/Vp-p	HP 3325B
	0.1 Vp-p to 1 Vp-p (1 μ Hz to 20 MHz)	0.36 mVp-p/Vp-p	HP 3325B
	1 Vp-p to 10 Vp-p (1 μ Hz to 20 MHz)	3.6 mVp-p/Vp-p	HP 3325B
	-110 dBm to -10 dBm (10 MHz to 20 GHz)	1.4 dBm	Giga Tronics 2426B
	-10 dBm to -5 dBm (10 MHz to 20 GHz)	0.81 dBm	Giga Tronics 2426B
	5 dBm to 20 dBm (10 MHz to 20 GHz)	0.98 dBm	Giga Tronics 2426B
Measuring Instrument Tachometer (non -" Contact)	60 to 100 rpm	0.0005 rpm/rpm + 0.002 rpm	In House Method
	101 rpm to 999 rpm	0.0005 rpm/rpm + 0.01 rpm	In House Method

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	1000 rpm to 9999 rpm	0.0005 rpm/rpm + 2.1 rpm	In House Method
	10000 rpm to 99999 rpm	0.0005 rpm/rpm + 0.3 rpm	In House Method
Measuring Instrument Risetime	(? 300 ps)	0.12 ns	Calibrator Fluke 5520A
Oscilloscope Vertical Deflection Dc Signal	6.6 V (50 Ω Load) $\pm$ (0 V to 6.6 V)	2.9 mV/V + 0.04 mV	Calibrator Fluke 5520A
	130 V (1 M Ω Load) $\pm$ (0 V to 130 V)	0.59 mV/V + 0.03 mV	Calibrator Fluke 5520A
Vertical Deflection Square Wave Signal	6.6 Vp-p (50 Ω Load) (1 mVp-p to 6.6 Vp-p)	2.9 mVp-p/Vp-p + 0.04 mVp-p	Calibrator Fluke 5520A
	130 Vp-p (1 M Ω Load) (1 mVp-p to 130 Vp-p)	0.59 mVp-p/Vp-p + 0.03 mVp-p	Calibrator Fluke 5520A
Horizontal Deflection Time Markers	(50 Ω Load) 20 ns/div to 20 ms/div	2.5 μ s/s	Calibrator Fluke 5520A
	(50 Ω Load) 50 ms/div to 5 s/div	(25+(Output X 1000)) μ s/s	Calibrator Fluke 5520A
Bandwidth Frequency	50 kHz to 600 MHz	2.5 μ Hz/Hz	Calibrator Fluke 5520A
Bandwidth Amplitude	5 mVp-p to 5.5 Vp-p 50 kHz to 100 MHz	35 mVp-p/Vp-p + 0.3 mVp-p	Calibrator Fluke 5520A
	5 mVp-p to 5.5 Vp-p 100 MHz to 300 MHz	40 mVp-p/Vp-p + 0.3 mVp-p	Calibrator Fluke 5520A
Sourcing/generating Instrument Dc Voltage	$\pm$ 200 mV $\pm$ (100 μ V to 199.99 mV)	5.7 μ V/V + 0.1 μ V	Multimeter Fluke 8508A
	$\pm$ 2 V $\pm$ (0.2 V to 1.9999 V)	4.0 μ V/V + 0.5 μ V	Multimeter Fluke 8508A
	$\pm$ 20 V $\pm$ (2 V to 19.999 V)	4.0 μ V/V + 5.4 μ V	Multimeter Fluke 8508A
	$\pm$ 200 V $\pm$ (20 V to 199.99 V)	6.3 μ V/V + 52 μ V	Multimeter Fluke 8508A
	$\pm$ 1000 V $\pm$ (200 V to 1050 V)	6.3 μ V/V + 68 μ V	Multimeter Fluke 8508A
	100 μ V to 1050 V See Matrix C	See Matrix C	Multimeter Fluke 8508A
Sourcing/generating Instrument Ac Voltage	200 μ A (0.1 μ A to 199.99 μ A)	13 μ A/A + 0.6 nA	Multimeter Fluke 8508A
Sourcing/generating Instrument Dc Current	2 mA (0.2 mA to 199.99 mA)	13 μ A/A + 0.006 μ A	Multimeter Fluke 8508A
	20 mA (2 mA to 19.999 mA)	16 μ A/A + 0.06 μ A	Multimeter Fluke 8508A

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	200 mA (20 mA to 199.99 mA)	55 μ A/A + 0.98 μ A	Multimeter Fluke 8508A
	2 A (0.2 A to 1.9999 A)	0.21 mA/A + 18 μ A	Multimeter Fluke 8508A
	20 A (2 A to 19.999 μ A)	0.46 mA/A + 0.46 mA	Multimeter Fluke 8508A
Sourcing/generating Instrument Ac Current	0.1 μ A to 20 A See Matrix D	See Matrix D	Multimeter Fluke 8508A
Sourcing/generating Instrument Resistance	2 Ω (0 Ω to 1.9999 Ω)	19 $\mu\Omega/\Omega$ + 6 $\mu\Omega$	Multimeter Fluke 8508A
	20 Ω (2 Ω to 19.999 Ω)	11 $\mu\Omega/\Omega$ + 17 $\mu\Omega$	Multimeter Fluke 8508A
	200 Ω (20 Ω to 199.99 Ω)	9 $\mu\Omega/\Omega$ + 62 $\mu\Omega$	Multimeter Fluke 8508A
	2 k Ω (0.2 k Ω to 1.9999 k Ω)	9 $\mu\Omega/\Omega$ + 0.62 m Ω	Multimeter Fluke 8508A
	20 k Ω (2 k Ω to 19.999 Ω)	9 $\mu\Omega/\Omega$ + 6.2 m Ω	Multimeter Fluke 8508A
	200 k Ω (20 k Ω to 199.99 k Ω)	9 $\mu\Omega/\Omega$ + 61 m Ω	Multimeter Fluke 8508A
	2 M Ω (0.2 M Ω to 1.9999 M Ω)	10 $\mu\Omega/\Omega$ + 1.2 Ω	Multimeter Fluke 8508A
	20 M Ω (2 M Ω to 19.999 M Ω)	23 $\mu\Omega/\Omega$ + 0.12 k Ω	Multimeter Fluke 8508A
	200 M Ω (20 M Ω to 199.99 M Ω)	0.14 m Ω/Ω + 12 k Ω	Multimeter Fluke 8508A
	2 G Ω (0.2 G Ω to 1.9999 G Ω)	1.7 m Ω/Ω + 1.2 M Ω	Multimeter Fluke 8508A
Sourcing/generating Instrument Frequency	1 Hz to 300 MHz	64 pHz/Hz + 11 μ Hz	Fluke PM6685R(Rubidium)
	100 MHz to 26.5 GHz	0.58 Hz	EIP 548 A Reference to Fluke PM6685R (Rubidium)
Sourcing/generating Instrument Amplitude/level	-20 dBm to 30 dBm (100 kHz to 2.6 GHz)	0.19 dBm	HP 8902 with HP11722A
	-30 dBm to 30 dBm (2.6 GHz to 18 GHz)	0.35 dBm	Agilent E44188 with HP8481A
	-30 dBm to 30 dBm (18 GHz to 26.5 GHz)	0.35 dBm	Agilent E44188 with HP8485A

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Sourcing/generating Instrument Frequency Modulation (fm)	20 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.24 kHz	HP 8902 with HP 11722 A
	50 Hz to 100 kHz (Carrier 10 MHz to 1300 MHz)	0.13 kHz	
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)	0.59 kHz	
Sourcing/generating Instrument Amplitude Modulation (am)	20 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.24 %	HP 8902 with HP 11722 A
	50 Hz to 100 kHz (Carrier 10 MHz to 1300 MHz)	0.36 %	
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)	0.13 %	
Sourcing/generating Instrument Phase Modulation (fm)	200 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.20 Radians	HP 8902 with HP 11722 A
	200 Hz to 20 kHz (Carrier 10 MHz to 1300 MHz)	0.15 Radians	
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)	0.13 %	
Sourcing/generating Instrument Distortion	Fundamental Frequency 20 Hz to 20 kHz	1 dB	HP8903A
	Fundamental Frequency 20 Hz to 20 kHz	2 dB	
Sourcing/generating Instrument Rpm (non -" Contact)	60 to 100 rpm	0.0005 rpm/rpm + 0.002 rpm	In House Method
	101 rpm to 999 rpm	0.0005 rpm/rpm + 0.02 rpm	In House Method
	1000 rpm to 9999 rpm	0.0005 rpm/rpm + 0.2 rpm	In House Method

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	10000 rpm to 99999 rpm	0.0005 rpm/rpm + 2 rpm	In House Method

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SCOPE OF CALIBRATION : ELECTRICAL

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Clamp Meter (dc Current)	3.2 A to 32.0 A	0.94 mA/A + 2.2 mA	Calibrator Fluke 5520A Turn Coils X10
	32.0 A to 102.0 A	0.79 mA/A + 51 mA	
	102.0 A to 200 A	1.3 mA/A + 53 mA	
	16.0 A to 160.0 A	0.77 mA/A + 61mA	Calibrator Fluke 5520A Turn Coils X50
	160 A to 525 A	4.2 mA/A + 0.17 A	
	525 A to 1000 A	0.75 mA/A + 0.96 A	
Clamp Meter (ac Current)	16.0 A to 160.0 A	0.77 mA/A + 61mA	Calibrator Fluke 5520A Turn Coils X50
	160 A to 525 A	4.2 mA/A + 0.17 A	
	525 A to 1000 A	0.75 mA/A + 0.96 A	
	3.2 A to 32.0 A @ 45Hz to 100Hz	2.6 mA/A + 6.9 mA	Calibrator Fluke 5520A Turn Coils X10
	3.2 A to 32.0 A @ 100Hz to 440Hz	9.1 mA/A + 30mA	Calibrator Fluke 5520A Turn Coils X10
	32.0 A to 200.0 A @ 45Hz to 100Hz	2.9 mA/A + 97 mA	Calibrator Fluke 5520A Turn Coils X10
	3.2 A to 32.0 A @ 100Hz to 440Hz	8.2 mA/A + 0.28A	Calibrator Fluke 5520A Turn Coils X10
	16.0 A to 160.0 A @ 45Hz to 100Hz	2.5 mA/A + 49 mA	Calibrator Fluke 5520A Turn Coils X50
	160 A to 1000 A @ 45Hz to 100Hz	2.8 mA/A + 0.68 A	Calibrator Fluke 5520A Turn Coils X50

SCOPE OF CALIBRATION : ELECTRICAL (LAB)

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Clamp Meter (dc Current)	3.2 A to 32.0 A	0.94 mA/A + 2.2 mA	Calibrator Fluke 5520A Turn Coils X10
	32.0 A to 102.0 A	0.79 mA/A + 51 mA	
	102.0 A to 200 A	1.3 mA/A + 53 mA	

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Clamp Meter (ac Current)	16.0 A to 160.0 A	0.77 mA/A + 61mA	Calibrator Fluke 5520A Turn Coils X50
	160 A to 525 A	4.2 mA/A + 0.17 A	
	525 A to 1000 A	0.75 mA/A + 0.96 A	
	16.0 A to 160.0 A	0.77 mA/A + 61mA	Calibrator Fluke 5520A Turn Coils X50
	160 A to 525 A	4.2 mA/A + 0.17 A	
	525 A to 1000 A	0.75 mA/A + 0.96 A	
	3.2 A to 32.0 A @ 45Hz to 100Hz	2.6 mA/A + 6.9 mA	Calibrator Fluke 5520A Turn Coils X10
	3.2 A to 32.0 A @ 100Hz to 440Hz	9.1 mA/A + 30mA	Calibrator Fluke 5520A Turn Coils X10
	32.0 A to 200.0 A @ 45Hz to 100Hz	2.9 mA/A + 97 mA	Calibrator Fluke 5520A Turn Coils X10
	3.2 A to 32.0 A @ 100Hz to 440Hz	8.2 mA/A + 0.28A	Calibrator Fluke 5520A Turn Coils X10
	16.0 A to 160.0 A @ 45Hz to 100Hz	2.5 mA/A + 49 mA	Calibrator Fluke 5520A Turn Coils X50
	160 A to 1000 A @ 45Hz to 100Hz	2.8 mA/A + 0.68 A	Calibrator Fluke 5520A Turn Coils X50

SITE LOCATION (HQ)	1. CATEGORY I
FIELD(S) OF CALIBRATION :	ELECTRICAL,ELECTRICAL (LAB),PRESSURE,TORQUE

SCOPE OF CALIBRATION : PRESSURE

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Pressure Measuring Device Oil Medium	0 bar to 35 bar (0 psi to 500 psi)	0.026 % of reading	Calibrated using deadweight tester based on BS EN 837 1, BS EN 837-3 & DKD-R 6-1 Ed 03/2014

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	35 bar to 700 bar (500 psi to 10,000 psi)	0.04 % of reading	Calibrated using deadweight tester based on BS EN 837 1, BS EN 837-3 & DKD-R 6-1 Ed 03/2014
	0 bar to 1,000 bar (10,000 psi to 15,000 psi)	0.27 bar	Calibrated using Pressure Calibrator based on BS EN 837 1, BS EN 837-3 & DKD-R 6-1 Ed 03/2014
Pressure Measuring Device Pneumatic Medium	0 bar to 1 bar	0.0007 bar	Calibrated using Pressure Calibrator or Digital Test Gauge based on BS EN 837 1, BS EN 837-3 & DKD-R 6-1 Ed 03/2014
	1 bar to 20 bar	0.006 bar	
Pressure Measuring Device Vacuum	Ambient to -0.95 bar	0.001 bar	Calibrated using Pressure Calibrator or Digital Test Gauge based on BS EN 837 1, BS EN 837-3 & DKD-R 6-1 Ed 03/2014

SCOPE OF CALIBRATION : TORQUE

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Torque Hand Torque Tools	0 N.m to 23 N.m	0.18 N.m	Calibration Torque using Calibrator based on 6789:2017 ISO
	23 N.m to 136 N.m	0.9 N.m	
	136 N.m to 814 N.m	5.4 N.m	

SCOPE OF CALIBRATION : ELECTRICAL

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Measuring Instrument Dc Voltage	$\pm 330 \text{ mV}$ $\pm (0 \text{ mV to } 330 \text{ mV})$ $\pm 3.3 \text{ V}$ $\pm (0 \text{ V to } 3.3 \text{ V})$ $\pm 33 \text{ V}$ $\pm (0 \text{ V to } 33 \text{ V})$ $\pm 330 \text{ V}$ $\pm (0 \text{ V to } 330 \text{ V})$ $\pm 1000 \text{ V}$ $\pm (100 \text{ V to } 1000 \text{ V})$	$26 \mu\text{V/V} + 0.4 \mu\text{V}$ $13 \mu\text{V/V} + 3 \mu\text{V}$ $14 \mu\text{V/V} + 27 \mu\text{V}$ $21 \mu\text{V/V} + 0.2 \text{ mV}$ $21 \mu\text{V/V} + 1.8 \text{ mV}$	Calibrator Fluke 5520A
Measuring Instrument Ac Voltage	33 mV to 1020 V See Matrix E	See Matrix E	Calibrator Fluke 5520A
Measuring Instrument Dc Current	$330 \mu\text{A}$ $\pm (0 \mu\text{A to } 330 \mu\text{A})$ 3.3 mA $\pm (0 \text{ mA to } 3.3 \text{ mA})$ 33 mA $\pm (0 \text{ mA to } 33 \text{ mA})$ 330 mA $\pm (0 \text{ mA to } 330 \text{ mA})$ 1.1 A $\pm (0 \text{ A to } 1.1 \text{ A})$ 3 A $\pm (1.1 \text{ A to } 3 \text{ A})$ 11 A $\pm (0 \text{ A to } 11 \text{ A})$ 20.5 A $\pm (11 \text{ A to } 20.5 \text{ A})$	$0.17 \text{ mA/A} + 0.02 \mu\text{A}$ $0.12 \text{ mA/A} + 0.05 \mu\text{A}$ $0.12 \text{ mA/A} + 0.3 \mu\text{A}$ $0.12 \text{ mA/A} + 3 \mu\text{A}$ $0.23 \text{ mA/A} + 47 \mu\text{A}$ $0.46 \text{ mA/A} + 0.11 \text{ mA}$ $0.58 \text{ mA/A} + 0.58 \text{ mA}$ $1.2 \text{ mA/A} + 0.87 \text{ mA}$	Calibrator Fluke 5520A
Measuring Instrument Ac Current	290 μA to 20.5 A See Matrix F	See Matrix F	Calibrator Fluke 5520A
Measuring Instrument Resistance (variable Value)	11Ω $(0 \Omega \text{ to } 11 \Omega)$ 33Ω $(11 \Omega \text{ to } 33 \Omega)$	$46 \mu\Omega/\Omega + 1 \text{ m}\Omega$ $35 \mu\Omega/\Omega + 1.7 \text{ m}\Omega$	Calibrator Fluke 5520A

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	110 μm (33 μm to 110 μm)	32 $\mu\text{m}/\text{mm} + 1.6 \text{ mm}$	
	330 μm (110 μm to 330 μm)	32 $\mu\text{m}/\text{mm} + 1.7 \text{ mm}$	
	1.1 mm (330 μm to 1.1 mm)	32 $\mu\text{m}/\text{mm} + 2 \text{ mm}$	
	3.3 mm (1.1 mm to 3.3 mm)	32 $\mu\text{m}/\text{mm} + 0.02 \text{ mm}$	
	11 mm (3.3 mm to 11 mm)	32 $\mu\text{m}/\text{mm} + 0.02 \text{ mm}$	
	33 mm (11 mm to 33 mm)	32 $\mu\text{m}/\text{mm} + 0.2 \text{ mm}$	
	110 mm (33 mm to 110 mm)	32 $\mu\text{m}/\text{mm} + 0.2 \text{ mm}$	
	330 mm (110 mm to 330 mm)	37 $\mu\text{m}/\text{mm} + 8 \text{ mm}$	
	1.1 M (330 mm to 1.1 M)	37 $\mu\text{m}/\text{mm} + 8 \text{ mm}$	
	3.3 M (1.1 M to 3.3 M)	69 $\mu\text{m}/\text{mm} + 58 \text{ mm}$	
	11 M (3.3 M to 11 M)	0.15 $\text{mm}/\text{mm} + 81 \text{ mm}$	
	33 M (11 M to 33 M)	0.25 $\text{mm}/\text{mm} + 3.1 \text{ k}$	
	110 M (33 M to 110 M)	0.58 $\text{mm}/\text{mm} + 3.7 \text{ k}$	
	330 M (110 M to 330 M)	3.5 $\text{mm}/\text{mm} + 0.1 \text{ M}$	
	1100 M (330 M to 1100 M)	17 $\text{mm}/\text{mm} + 0.6 \text{ M}$	

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Measuring Instrument Capacitance	0.4 nF (0.19 nF to 0.4 nF) 10 Hz to 10 kHz	5.7 mF/F + 0.01 nF	Calibrator Fluke 5520A
	1.1 nF (0.4 nF to 1.1 nF) 10 Hz to 10 kHz	5.7 mF/F + 0.01 nF	Calibrator Fluke 5520A
	3.3 nF (1.1 nF to 3.3 nF) 10 Hz to 3 kHz	5.8 mF/F + 0.01 nF	Calibrator Fluke 5520A
	11 nF (3.3 nF to 11 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.01 nF	Calibrator Fluke 5520A
	33 nF (11 nF to 33 nF) 10 Hz to 1 kHz	2.8 mF/F + 0.01 nF	Calibrator Fluke 5520A
	110 nF (33 nF to 110 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.1 nF	Calibrator Fluke 5520A
	330 nF (110 nF to 330 nF) 10 Hz to 1 kHz	2.9 mF/F + 0.3 nF	Calibrator Fluke 5520A
	1.1 µF 0.4 µF to 1.1 µF 10 Hz to 600 Hz	2.9 mF/F + 1 nF	Calibrator Fluke 5520A
	3.3 µF (1.1 µF to 3.3 µF) 10 Hz to 300 Hz	2.9 mF/F + 3 nF	Calibrator Fluke 5520A
	11 µF (3.3 µF to 11 µF) 10 Hz to 150 Hz	2.9 mF/F + 12nF	Calibrator Fluke 5520A
	33 µF (11 µF to 33 µF) 10 Hz to 120 Hz	4.6 mF/F + 35nF	Calibrator Fluke 5520A
	110 µF (33 µF to 110 µF) 10 Hz to 80 Hz	5.2 mF/F + 0.12 µF	Calibrator Fluke 5520A
	330 µF (110 µF to 330 µF) 0 Hz to 50 Hz	5.2 mF/F + 0.35 µF	Calibrator Fluke 5520A
	1.1 mF (0.33 mF to 1.1 mF) 0 Hz to 20 Hz	5.2 mF/F + 1 µF	Calibrator Fluke 5520A
	3.3 mF (1.1 mF to 3.3 mF) 0 Hz to 6 Hz	5.2 mF/F + 3.5 µF	Calibrator Fluke 5520A

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	11 mF (3.3 mF to 11 mF) 0 Hz to 2 Hz	5.2 mF/F + 12 µF	Calibrator Fluke 5520A
	33 mF (11 mF to 33 mF) 0 Hz to 0.6 Hz	8.7 mF/F + 35 µF	Calibrator Fluke 5520A
	110 mF		Calibrator Fluke 5520A
Measuring Instrument Frequency	1 µHz to 1 MHz (1 mVp-p to 10 Vp-p)	38 µHz	HP 3325B Reference to Rubidium Fluke PM6685R
	1 MHz to 20 MHz (1 mVp-p to 10 Vp-p)	0.58 mHz	HP 3325B Reference to Rubidium Fluke PM6685R
	10 MHz to 1 GHz (-110 dBm to 20 dBm)	58 mHz	Giga Tronics 2426B Reference to Rubidium Fluke PM6685R
Measuring Instrument Amplitude/level	1 mVp-p to 10 mVp-p (1 µHz to 20 MHz)	3.6 µVp-p/Vp-p	HP 3325B
	10 mVp-p to 100 mVp-p (1 µHz to 20 MHz)	36 µVp-p/Vp-p	HP 3325B
	0.1 Vp-p to 1Vp-p (1 µHz to 20 MHz)	0.36 mVp-p/Vp-p	HP 3325B
	1 Vp-p to 10 Vp-p (1 µHz to 20 MHz)	3.6 mVp-p/Vp-p	HP 3325B
	-110 dBm to -10 dBm (10 MHz to 20 GHz)	1.4 dBm	Giga Tronics 2426B
	-10 dBm to -5 dBm (10 MHz to 20 GHz)	0.81 dBm	Giga Tronics 2426B
	5 dBm to 20 dBm (10 MHz to 20 GHz)	0.98 dBm	Giga Tronics 2426B
Measuring Instrument Tachometer (non -" Contact)	60 to 100 rpm	0.0005 rpm/rpm + 0.002 rpm	In House Method
	101 rpm to 999 rpm	0.0005 rpm/rpm + 0.01 rpm	In House Method
	1000 rpm to 9999 rpm	0.0005 rpm/rpm + 2.1 rpm	In House Method
	10000 rpm to 99999 rpm	0.0005 rpm/rpm + 0.3 rpm	In House Method
Measuring Instrument Risetime	(? 300 ps)	0.12 ns	Calibrator Fluke 5520A
Oscilloscope Vertical Deflection Dc Signal	6.6 V (50 - Load) ± (0 V to 6.6 V)	2.9 mV/V + 0.04 mV	Calibrator Fluke 5520A
	130 V (1 M- Load) ± (0 V to 130 V)	0.59 mV/V + 0.03 mV	Calibrator Fluke 5520A

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Vertical Deflection Square Wave Signal	6.6 Vp-p (50 Ω Load) (1 mVp-p to 6.6 Vp-p)	2.9 mVp-p/Vp-p + 0.04 mVp-p	Calibrator Fluke 5520A
	130 Vp-p (1 M Ω Load) (1 mVp-p to 130 Vp-p)	0.59 mVp-p/Vp-p + 0.03 mVp-p	Calibrator Fluke 5520A
Horizontal Deflection Time Markers	(50 Ω Load) 20 ns/div to 20 ms/div	2.5 μ s/s	Calibrator Fluke 5520A
	(50 Ω Load) 50 ms/div to 5 s/div	(25+(Output X 1000)) μ s/s	Calibrator Fluke 5520A
Bandwidth Frequency	50 kHz to 600 MHz	2.5 μ Hz/Hz	Calibrator Fluke 5520A
Bandwidth Amplitude	5 mVp-p to 5.5 Vp-p 50 kHz to 100 MHz	35 mVp-p/Vp-p + 0.3 mVp-p	Calibrator Fluke 5520A
	5 mVp-p to 5.5 Vp-p 100 MHz to 300 MHz	40 mVp-p/Vp-p + 0.3 mVp-p	Calibrator Fluke 5520A
Sourcing/generating Instrument Dc Voltage	$\pm$ 200 mV $\pm$ (100 μ V to 199.99 mV)	5.7 μ V/V + 0.1 μ V	Multimeter Fluke 8508A
	$\pm$ 2 V $\pm$ (0.2 V to 1.9999 V)	4.0 μ V/V + 0.5 μ V	Multimeter Fluke 8508A
	$\pm$ 20 V $\pm$ (2 V to 19.999 V)	4.0 μ V/V + 5.4 μ V	Multimeter Fluke 8508A
	$\pm$ 200 V $\pm$ (20 V to 199.99 V)	6.3 μ V/V + 52 μ V	Multimeter Fluke 8508A
	$\pm$ 1000 V $\pm$ (200 V to 1050 V)	6.3 μ V/V + 68 μ V	Multimeter Fluke 8508A
Sourcing/generating Instrument Ac Voltage	100 μ V to 1050 V See Matrix G	See Matrix G	Multimeter Fluke 8508A
Sourcing/generating Instrument Dc Current	200 μ A (0.1 μ A to 199.99 μ A)	13 μ A/A + 0.6 nA	Multimeter Fluke 8508A
	2 mA (0.2 mA to 199.99 mA)	13 μ A/A + 0.006 μ A	Multimeter Fluke 8508A
	20 mA (2 mA to 19.999 mA)	16 μ A/A + 0.06 μ A	Multimeter Fluke 8508A
	200 mA (20 mA to 199.99 mA)	55 μ A/A + 0.98 μ A	Multimeter Fluke 8508A
	2 A (0.2 A to 1.9999 A)	0.21 mA/A + 18 μ A	Multimeter Fluke 8508A
	20 A (2 A to 19.999 μ A)	0.46 mA/A + 0.46 mA	Multimeter Fluke 8508A
Sourcing/generating Instrument Ac Current	0.1 μ A to 20 A See Matrix H	See Matrix H	Multimeter Fluke 8508A
Sourcing/generating Instrument Resistance	2 Ω (0 Ω to 1.9999 Ω)	19 $\mu\Omega/\Omega$ + 6 $\mu\Omega$	Multimeter Fluke 8508A

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	20 μA (2 μA to 19.999 μA)	11 $\mu\text{A}/\text{V}$ + 17 μA	Multimeter Fluke 8508A
	200 μA (20 μA to 199.99 μA)	9 $\mu\text{A}/\text{V}$ + 62 μA	Multimeter Fluke 8508A
	2 mA (0.2 mA to 1.9999 mA)	9 $\mu\text{A}/\text{V}$ + 0.62 mA	Multimeter Fluke 8508A
	20 mA (2 mA to 19.999 mA)	9 $\mu\text{A}/\text{V}$ + 6.2 mA	Multimeter Fluke 8508A
	200 mA (20 mA to 199.99 mA)	9 $\mu\text{A}/\text{V}$ + 61 mA	Multimeter Fluke 8508A
	2 A (0.2 A to 1.9999 A)	10 $\mu\text{A}/\text{V}$ + 1.2 A	Multimeter Fluke 8508A
	20 A (2 A to 19.999 A)	23 $\mu\text{A}/\text{V}$ + 0.12 A	Multimeter Fluke 8508A
	200 A (20 A to 199.99 A)	0.14 mA/V + 12 A	Multimeter Fluke 8508A
	2 G (0.2 G to 1.9999 G)	1.7 mA/V + 1.2 A	Multimeter Fluke 8508A
Sourcing/generating Instrument Frequency	1 Hz to 300 MHz	64 pHz/Hz + 11 uHz	Fluke PM6685R(Rubidium)
	100 MHz to 26.5 GHz	0.58 Hz	EIP 548 A Reference to Fluke PM6685R (Rubidium)
Sourcing/generating Instrument Amplitude/level	-20 dBm to 30 dBm (100 kHz to 2.6 GHz)	0.19 dBm	HP 8902 with HP11722A
	-30 dBm to 30 dBm (2.6 GHz to 18 GHz)	0.35 dBm	Agilent E44188 with HP8481A
	-30 dBm to 30 dBm (18 GHz to 26.5 GHz)	0.35 dBm	Agilent E44188 with HP8485A
Sourcing/generating Instrument Frequency Modulation (fm)	20 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.24 kHz	HP8902 with HP11722A
	50 Hz to 100 kHz (Carrier 10 MHz to 1300 MHz)	0.13 kHz	HP8902 with HP11722A
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)	0.59 kHz	HP8902 with HP11722A
Sourcing/generating Instrument Amplitude Modulation (am)	20 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.24 %	HP8902 with HP11722A

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	50 Hz to 100 kHz (Carrier 10 MHz to 1300 MHz)	0.36 %	HP8902 with HP11722A
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)	0.13 %	HP8902 with HP11722A
Sourcing/generating Instrument Phase Modulation (fm)	200 Hz to 10 kHz (Carrier 150 kHz to 10 MHz)	0.20 Radians	HP8902 with HP11722A
	200 Hz to 20 kHz (Carrier 10 MHz to 1300 MHz)	0.15 Radians	HP8902 with HP11722A
	20 Hz to 200 kHz (Carrier 150 kHz to 10 MHz)	0.13 %	HP8902 with HP11722A
Sourcing/generating Instrument Distortion	Fundamental Frequency 20 Hz to 20 kHz	1 dB	HP8903A
	Fundamental Frequency 20 Hz to 20 kHz	2 dB	HP8903A
Sourcing/generating Instrument Rpm (non -“ Contact)	60 to 100 rpm	0.0005 rpm/rpm + 0.002 rpm	In House Method
	101 rpm to 999 rpm	0.0005 rpm/rpm + 0.02 rpm	In House Method
	1000 rpm to 9999 rpm	0.0005 rpm/rpm + 0.2 rpm	In House Method
	10000 rpm to 99999 rpm	0.0005 rpm/rpm + 2 rpm	In House Method

SCOPE OF CALIBRATION : ELECTRICAL (LAB)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Clamp Meter (dc Current)	3.2 A to 32.0 A	0.94 mA/A + 2.2 mA	Calibrator Fluke 5520A Turn Coils X10
	32.0 A to 102.0 A	0.79 mA/A + 51 mA	
	102.0 A to 200 A	1.3 mA/A + 53 mA	

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Clamp Meter (ac Current)	16.0 A to 160.0 A	0.77 mA/A + 61mA	Calibrator Fluke 5520A Turn Coils X50
	160 A to 525 A	4.2 mA/A + 0.17 A	
	525 A to 1000 A	0.75 mA/A + 0.96 A	
	3.2 A to 32.0 A @ 45Hz to 100Hz	2.6 mA/A + 6.9 mA	Calibrator Fluke 5520A Turn Coils X10
	3.2 A to 32.0 A @ 100Hz to 440Hz	9.1 mA/A + 30mA	Calibrator Fluke 5520A Turn Coils X10
	32.0 A to 200.0 A @ 45Hz to 100Hz	2.9 mA/A + 97 mA	Calibrator Fluke 5520A Turn Coils X10
	3.2 A to 32.0 A @ 100Hz to 440Hz	8.2 mA/A + 0.28A	Calibrator Fluke 5520A Turn Coils X10
	16.0 A to 160.0 A @ 45Hz to 100Hz	2.5 mA/A + 49 mA	Calibrator Fluke 5520A Turn Coils X50
	160 A to 1000 A @ 45Hz to 100Hz	2.8 mA/A + 0.68 A	Calibrator Fluke 5520A Turn Coils X50

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