

Certificate Number

240922 - 08206 - [REDACTED]



REV: V1.00

Order #:

Printed on: 09/22/2024

Instrument Identification

Company: [REDACTED]
Address: [REDACTED]
Model: **08206**
Serial: [REDACTED] Customer Instrument -
Technician: **Jenson Pei**

Received Date: **Sep, 22 / 2024**
Calibration Date: **Sep, 22 / 2024**
Issue Date: **Sep, 22 / 2024**
Temperature: **(23+/- 5) DEG C**
Humidity: **(50+/-10) %RH**
Test Procedure #: **802-5001**
Calibration Location:

Ikonix Asia

Measurements reported in this certificate are traceable to the International System of Units (SI) via National Metrology Institutes (NMIs) that are signatories to the CIPM Mutual Recognition Arrangement (MRA) such as US NIST, UK NPL, Germany's PTB and the like. The results reported herein relate only to the item calibrated. Measurement uncertainties have been estimated in accordance with the Guide to the expression of Uncertainty in Measurement (GUM), JCGM 100:2008. A coverage factor of $k=2$ has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95 % confidence level.

Ikonix does not provide any judgement of in-/out-of- tolerance on its certificates. This is due to the requirement that such decisions must be made after taking into consideration the associated measurement uncertainty in accordance with an agreed decision rule. In the absence of such a decision rule, Ikonix has elected to report the measurement with the associated uncertainty per incidence. This allows the user to calculate acceptance limits based on whatever decision rule they choose considering the risk level they deem fit for their purpose. This certificate shall not be reproduced except in full, without written permission of Ikonix.

Remark: Instrument was calibrated according to manufacturer's specification. See the attached data sheet(s).

Calibration Standards Used

Inst ID#	Model No	Model Description	Cal Date	Due Date	Traceability to SI
IKA 702	HL-1D	TEMPERATURE & HUMIDITY DATA LOGGER	6/28/2024	6/28/2025	Thermohygrometer /VNA/A13081/23/Cal due 6 Oct 20024 Thermometer With Sensor /VNA/A3853/24/ Cal due 18 Mar 2025
IKA 501	VD15-16.5-A-ABB-A	HIGH VOLTAGE DIVIDER	10/25/2023	10/25/2025	R.E.C VD240-6.2-CIC-K-DM/9188/Cal due 31 Jan 2024 Trench UT5H/9303/Cal due 31 Aug 2024 HP 3458A/9353/Cal due 17 Dec 2023 Keysight 34461A/9390/Cal due 15 May 2024
IKA 611	34465A	6.5 DIGIT MULTIMETER	10/20/2023	10/20/2024	Fluke 5700A/6355305/Cal due 14 Feb 2024 Fluke 5725A/4312010/Cal due 14 Apr 2024 Agilent 33250A/MY40005495/Cal due 15 Jun 2024 GR 1409-Y/19956/Cal due 18 Oct 2024
IKA 511	CTGB4-2	ATS EVOLUTION LOAD REV B	9/27/2023	9/27/2024	Agilent 4339B/MY43101977/Cal due 05 Oct 2023 HP 3458A/2823A19563/Cal due 06 Dec 2023 Zenith H007098/ESD015/A1/Cal due 17 Jul 2024 Wavetek 9100/30281/Cal due 01 Mar 2024
IKA 621	M249A	METRAHIT ENERGY	11/22/2023	11/22/2024	Calibrator Fluke 5522A/5368903/ Cal due 22 Mar 2024
IKA 613	3458A	WIDEBAND VOLTMETER	4/30/2024	4/30/2025	Function/Arbitrary Waveform Generator, 80Mhz 33250A/33250AA7829/Cal due 24 Dec 2024 Digital Multimeter, 8.5 digit 3458A/3458A55969/Cal due 3 Jul 2024 High Performance Multifunction Calibrator 5730A/5730A37504/Cal due 26 Mar 2025
IKA 631	PPA530	PPA530-3 PHASE PRECISION POWER ANALYZER	5/6/2024	5/6/2025	Fluke 5500A/7675023/Cal due 14 Feb 2025 Fluke 5725A/538001/Cal due 1 Apr 2025 Keysight 3458A-002/2823A08636/Cal due 20 Oct 2025 Yokogawa 2215/E62YA4037/10 Jul 2024

Certified

Jenson.P

Approved by: *Eric Chiam*

Before & After Data

Certificate: 240922 - 08206 - ██████████

REV: V1.00

Order #: 0

Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
				Before	After				

Ground Bond Current Metering (A) @60hz	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty	
1.00 40.00										
1	0.99	1.008		0.02	N/A	0.930	1.050	3	0.03	0.13 A
1	0.99		1.006	N/A	0.02	0.930	1.050	3	0.03	0.13 A
5	4.99	5.023		0.01	N/A	4.810	5.170	3	0.03	0.13 A
5	4.99		4.996	N/A	0	4.810	5.170	3	0.03	0.13 A
10	9.99	10.073		0.01	N/A	9.660	10.320	3	0.03	0.13 A
10	10		10.025	N/A	0	9.670	10.330	3	0.03	0.13 A
30	29.99	30.191		0.01	N/A	29.060	30.920	3	0.03	0.13 A
30	30		30.027	N/A	0	29.070	30.930	3	0.03	0.13 A
40	39.99	40.212		0.01	N/A	38.760	41.220	3	0.03	0.13 A
40	40.01		39.968	N/A	0	38.780	41.240	3	0.03	0.13 A

Ground Bond Current Setting (A) @60hz	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty	
1.00 40.00										
1	1	1.008		0.01	N/A	0.960	1.040	2	0.02	*
1	1		1.006	N/A	0.01	0.960	1.040	2	0.02	*
5	5	5.023		0	N/A	4.880	5.120	2	0.02	*
5	5		4.996	N/A	0	4.880	5.120	2	0.02	*
10	10	10.073		0.01	N/A	9.780	10.220	2	0.02	*
10	10		10.025	N/A	0	9.780	10.220	2	0.02	*
30	30	30.191		0.01	N/A	29.380	30.620	2	0.02	*
30	30		30.027	N/A	0	29.380	30.620	2	0.02	*
40	40	40.212		0.01	N/A	39.180	40.820	2	0.02	*
40	40		39.968	N/A	0	39.180	40.820	2	0.02	*

Ground Bond Resistance (milliOhm)(60Hz)	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty	
25.00 450.00										
@10 Amps	25	27	25.7	0.05	N/A	24.460	29.540	2	2	32 μΩ
@10 Amps	25	26	25.7	N/A	0.01	23.480	28.520	2	2	31 μΩ
@30 Amps	25	27	25.7	0.05	N/A	24.460	29.540	2	2	32 μΩ
@30 Amps	25	27	25.7	N/A	0.05	24.460	29.540	2	2	32 μΩ
@25 Amps	100	101	100.4	0.01	N/A	96.980	105.020	2	2	0.12 mΩ
@25 Amps	100	100	100.4	N/A	0	96.000	104.000	2	2	0.12 mΩ
@10 Amps	450	450	447.0	0.01	N/A	439.000	461.000	2	2	0.54 mΩ
@10 Amps	450	446	447.0	N/A	0	435.080	456.920	2	2	0.54 mΩ

Ground Resistance Metering Measured(Ohm)	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty	
0.50 9524.00										
0.5	0.44	0.447		0.02	N/A	0.406	0.474	1	0.03	16 mΩ
0.5	0.45		0.447	N/A	0.01	0.416	0.485	1	0.03	16 mΩ
1	1.08	1.081		0	N/A	1.039	1.121	1	0.03	18 mΩ
1	1.09		1.081	N/A	0.01	1.049	1.131	1	0.03	18 mΩ
5	5.1	5.104		0	N/A	5.029	5.191	1	0.03	31 mΩ
5	5.1		5.104	N/A	0	5.039	5.201	1	0.03	31 mΩ
20	20.0	20.00		0	N/A	19.500	20.500	1	0.3	77 mΩ
20	20.0		20.00	N/A	0	19.500	20.500	1	0.3	77 mΩ
200	200	199.7		0	N/A	195.000	205.000	1	3	0.26 Ω
200	200		199.7	N/A	0	195.000	205.000	1	3	0.26 Ω
995	998	997.1		0	N/A	978.020	1017.980	1	10	1.2 Ω
995	1000		997.1	N/A	0	980.000	1020.000	1	10	1.2 Ω
2000	2006	2004.9		0	N/A	1975.940	2036.060	1	10	2.0 Ω
2000	2011		2004.9	N/A	0	1980.890	2041.110	1	10	2.0 Ω

Before & After Data

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Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS		Measurement uncertainty
				Before	After			%Rdg	+(Value)	
	9524	8962	8954.4	0	N/A	8862.380	9061.620	1	10	9.0 Ω
	9524	8980	8954.4	N/A	0	8880.200	9079.800	1	10	9.0 Ω
Ground Cont Resistance (Ohm)		UUT METER READING	STANDARD READING	STANDARD READING						
0.50 1.50										
	1	1.1	1.08	0	N/A	0.980	1.180	0	0.1	18 mΩ
	1	1.1	1.08	N/A	0	0.980	1.180	0	0.1	18 mΩ
Voltage Metering AC RMS (KV) @60hz		UUT METER READING	STANDARD READING	STANDARD READING						
0.10 5.00										
	0.1	0.1	0.096	0.04	N/A	0.089	0.112	1.5	0.01	0.98 V
	0.1	0.1	0.096	N/A	0.04	0.089	0.112	1.5	0.01	0.98 V
	0.25	0.25	0.254	0.02	N/A	0.236	0.264	1.5	0.01	1.9 V
	0.25	0.25	0.245	N/A	0.02	0.236	0.264	1.5	0.01	1.9 V
	0.5	0.5	0.504	0.01	N/A	0.493	0.508	1.5	0	3.3 V
	0.5	0.5	0.497	N/A	0.01	0.493	0.508	1.5	0	3.3 V
	1	1	1.003	0	N/A	0.985	1.015	1.5	0	6.2 V
	1	1	0.995	N/A	0.01	0.985	1.015	1.5	0	6.2 V
	3	3	2.999	0	N/A	2.955	3.045	1.5	0	37 V
	3	3	3.002	N/A	0	2.955	3.045	1.5	0	37 V
	5	5	5.005	0	N/A	4.925	5.075	1.5	0	48 V
	5	5.01	5.005	N/A	0	4.935	5.085	1.5	0	48 V
Voltage Setting AC RMS (KV) @60hz		UUT METER READING	STANDARD READING	STANDARD READING						
0.10 5.00										
	0.1	0.1	0.096	0.04	N/A	0.094	0.107	1.5	0.005	*
	0.1	0.1	0.096	N/A	0.04	0.094	0.107	1.5	0.005	*
	0.25	0.25	0.254	0.02	N/A	0.241	0.259	1.5	0.005	*
	0.25	0.25	0.245	N/A	0.02	0.241	0.259	1.5	0.005	*
	0.5	0.5	0.504	0.01	N/A	0.488	0.513	1.5	0.005	*
	0.5	0.5	0.497	N/A	0.01	0.488	0.513	1.5	0.005	*
	1	1	1.003	0	N/A	0.980	1.020	1.5	0.005	*
	1	1	0.995	N/A	0.01	0.980	1.020	1.5	0.005	*
	3	3	2.999	0	N/A	2.950	3.050	1.5	0.005	*
	3	3	3.002	N/A	0	2.950	3.050	1.5	0.005	*
	5	5	5.005	0	N/A	4.920	5.080	1.5	0.005	*
	5	5	5.005	N/A	0	4.920	5.080	1.5	0.005	*
Voltage Metering DC (KV)		UUT METER READING	STANDARD READING	STANDARD READING						
0.10 6.00										
	0.1	0.1	0.100	0	N/A	0.089	0.112	1.5	0.01	1.2 V
	0.1	0.1	0.100	N/A	0	0.089	0.112	1.5	0.01	1.2 V
	0.25	0.25	0.251	0	N/A	0.236	0.264	1.5	0.01	1.2 V
	0.25	0.25	0.250	N/A	0	0.236	0.264	1.5	0.01	1.2 V
	0.5	0.5	0.502	0	N/A	0.493	0.508	1.5	0	1.2 V
	0.5	0.5	0.500	N/A	0	0.493	0.508	1.5	0	1.2 V
	2	2	2.007	0	N/A	1.970	2.030	1.5	0	1.2 V
	2	2	1.999	N/A	0	1.970	2.030	1.5	0	1.2 V
	4	4	4.014	0	N/A	3.940	4.060	1.5	0	1.2 V
	4	4	3.999	N/A	0	3.940	4.060	1.5	0	1.2 V
	6	6	6.022	0	N/A	5.910	6.090	1.5	0	1.2 V
	6	6	6.000	N/A	0	5.910	6.090	1.5	0	1.2 V
VOLTAGE Metering IR (V)		UUT METER READING	STANDARD READING	STANDARD READING						

Before & After Data

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Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

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MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)		Measurement uncertainty
				Before	After					

100.00 1000.00										
100	100	100.0		0	N/A	96.500	103.500	1.5	2	1.2 V
100	100		99.1	N/A	0.01	96.500	103.500	1.5	2	1.2 V
250	250	250.0		0	N/A	244.250	255.750	1.5	2	1.2 V
250	250		248.6	N/A	0.01	244.250	255.750	1.5	2	1.2 V
500	500	501.8		0	N/A	490.500	509.500	1.5	2	1.2 V
500	500		499.6	N/A	0	490.500	509.500	1.5	2	1.2 V
1000	1000	1003.4		0	N/A	983.000	1017.000	1.5	2	1.2 V
1000	1000		999.7	N/A	0	983.000	1017.000	1.5	2	1.2 V
3000	3000	3010.4		0	N/A	2945.000	3055.000	1.5	10	1.2 V
3000	3000		2999.4	N/A	0	2945.000	3055.000	1.5	10	1.2 V
6000	6000	6022.0		0	N/A	5900.000	6100.000	1.5	10	1.2 V
6000	6000		5999.7	N/A	0	5900.000	6100.000	1.5	10	1.2 V

Voltage Setting DC (KV)										
0.10 6.00										
	UUT METER READING	STANDARD READING	STANDARD READING							
0.1	0.1	0.100		0	N/A	0.094	0.107	1.5	0.005	*
0.1	0.1		0.100	N/A	0	0.094	0.107	1.5	0.005	*
0.25	0.25	0.251		0	N/A	0.241	0.259	1.5	0.005	*
0.25	0.25		0.250	N/A	0	0.241	0.259	1.5	0.005	*
0.5	0.5	0.502		0	N/A	0.488	0.513	1.5	0.005	*
0.5	0.5		0.500	N/A	0	0.488	0.513	1.5	0.005	*
2	2	2.007		0	N/A	1.965	2.035	1.5	0.005	*
2	2		1.999	N/A	0	1.965	2.035	1.5	0.005	*
4	4	4.014		0	N/A	3.935	4.065	1.5	0.005	*
4	4		3.999	N/A	0	3.935	4.065	1.5	0.005	*
6	6	6.022		0	N/A	5.905	6.095	1.5	0.005	*
6	6		6.000	N/A	0	5.905	6.095	1.5	0.005	*

Leakage Current Metering AC (mA)											
@60hz											
0.10 95.00											
	UUT METER READING	STANDARD READING	STANDARD READING								
1 MG LD	0.1	0.1	0.0998		0	N/A	0.096	0.104	2	0.002	0.11 μA
1 MG LD	0.1	0.099		0.0998	N/A	0.01	0.095	0.103	2	0.002	0.11 μA
200K LD	3	2.985	2.9815		0	N/A	2.923	3.047	2	0.002	2.8 μA
200K LD	3	2.982		2.9813	N/A	0	2.920	3.044	2	0.002	2.8 μA
200K LD	5	4.97	4.977		0	N/A	4.851	5.089	2	0.02	4.7 μA
200K LD	5	4.98		4.976	N/A	0	4.860	5.100	2	0.02	4.7 μA
100K LD	20	19.08	19.079		0	N/A	18.678	19.482	2	0.02	27 μA
100K LD	20	19.09		19.080	N/A	0	18.688	19.492	2	0.02	27 μA
	40	35.57	35.568		0	N/A	34.839	36.301	2	0.02	50 μA
	40	35.59		35.568	N/A	0	34.858	36.322	2	0.02	50 μA

Leakage Current Metering DC (μA)											
0.2 19000.00											
	UUT METER READING	STANDARD READING	STANDARD READING								
10 MG LD	5	5	5.06		0.01	N/A	4.700	5.300	2	0.2	0.38 nA
10 MG LD	5		5.02		N/A	0	4.700	5.300	2	0.2	0.38 nA
1 MG LD	100	100.2	100.26		0	N/A	97.996	102.404	2	0.2	4.1 nA
1 MG LD	100	100.1		100.08	N/A	0	97.898	102.302	2	0.2	4.1 nA
1 MG LD	1000	1004	1004.8		0	N/A	981.920	1026.080	2	2	53 nA
1 MG LD	1000	1002		1001.2	N/A	0	979.960	1024.040	2	2	53 nA
1 MG LD	4900	5000	5007.0		0	N/A	4880.000	5120.000	2	20	1.3 μA
1 MG LD	4900	4990		4989.5	N/A	0	4870.200	5109.800	2	20	1.3 μA
66K LD	19000	18850	18854.8		0	N/A	18453.000	19247.000	2	20	6.3 μA
66K LD	19000	18790		18785.9	N/A	0	18394.200	19185.800	2	20	6.3 μA

Before & After Data

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Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
				Before	After				

Real Current Metering AC (mA) @60hz	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty	
0.50 39.00										
@250V/0.3uF	0.5	0.51	0.497	0.03	N/A	0.445	0.575	3	0.05	0.61 μ A
@250V/0.3uF	0.5	0.509	0.497	N/A	0.02	0.444	0.574	3	0.05	0.61 μ A
@1000V/0.3uF	2	2	1.993	0	N/A	1.890	2.110	3	0.05	1.9 μ A
@1000V/0.3uF	2	2.01	1.993	N/A	0.01	1.900	2.120	3	0.05	1.9 μ A
@1700V/0.3uF	5	5.03	4.984	0.01	N/A	4.829	5.231	3	0.05	4.7 μ A
@1700V/0.3uF	5	5.03	4.984	N/A	0.01	4.829	5.231	3	0.05	4.7 μ A
@1200V/0.3uF	20	19.11	19.113	0	N/A	18.487	19.733	3	0.05	27 μ A
@1200V/0.3uF	20	19.12	19.112	N/A	0	18.496	19.744	3	0.05	27 μ A
@2500V/0.3uF	39	38.09	38.096	0	N/A	36.897	39.283	3	0.05	53 μ A
@2500V/0.3uF	39	38.11	38.093	N/A	0	36.917	39.303	3	0.05	53 μ A

Insulation Resistance (MegaOhm)	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty	
2.00 45000.00										
@100 Volts	2	1.995	2.0024	0	N/A	1.853	2.137	7	0.002	2.4 K Ω
@100 Volts	2	2.01	2.0024	N/A	0	1.867	2.153	7	0.002	2.4 K Ω
@50 Volts	50	49.87	49.986	0	N/A	46.359	53.381	7	0.02	0.60 M Ω
@50 Volts	50	49.98	49.986	N/A	0	46.461	53.499	7	0.02	0.60 M Ω
@1000 Volts	50	50.1	49.986	0	N/A	49.078	51.122	2	0.02	0.60 M Ω
@1000 Volts	50	51	49.986	N/A	0.02	49.960	52.040	2	0.02	0.61 M Ω
@50 Volts	500	505	498.98	0.01	N/A	467.650	542.350	7	2	6.1 M Ω
@50 Volts	500	509	498.98	N/A	0.02	471.370	546.630	7	2	6.1 M Ω
@500 Volts	500	500	499.0	0	N/A	464.980	535.020	7	0.02	6.0 M Ω
@500 Volts	500	502.1	499.0	N/A	0.01	466.933	537.267	7	0.02	6.0 M Ω
@500 Volts	1000	1000	997.0	0	N/A	948.000	1052.000	5	2	12 M Ω
@500 Volts	1000	1003	997.0	N/A	0.01	950.850	1055.150	5	2	12 M Ω
@500 Volts	9250	8826	8999.7	0.02	N/A	8382.700	9269.300	5	2	*
@500 Volts	9250	8856	8999.7	N/A	0.02	8411.200	9300.800	5	2	*
@2000 Volts	9250	9166	8999.7	0.02	N/A	8705.700	9626.300	5	2	*
@2000 Volts	9250	9018	8999.7	N/A	0	8565.100	9470.900	5	2	*
@1000 Volts	20000	19438	19489.0	0	N/A	16520.300	22355.700	15	2	*
@1000 Volts	20000	19170	19489.0	N/A	0.02	16292.500	22047.500	15	2	*
@4000 Volts	20000	18802	19489.0	0.04	N/A	15979.700	21624.300	15	2	*
@4000 Volts	20000	18929	19489.0	N/A	0.03	16087.650	21770.350	15	2	*
@1000 Volts	45000	48001	45069.0	0.06	N/A	40798.850	55203.150	15	2	*
@1000 Volts	45000	45039	45069.0	N/A	0	38281.150	51796.850	15	2	*
@6000 Volts	45000	47570	45069.0	0.05	N/A	40432.500	54707.500	15	2	*
@6000 Volts	45000	44480	45069.0	N/A	0.01	37806.000	51154.000	15	2	*

Run Test Volt Meter (V) @60hz	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty	
30.00 270.00										
	30	29.9	30.02	0	N/A	29.252	30.549	1.5	0.2	81 mV
	30	30	30.03	N/A	0	29.350	30.650	1.5	0.2	81 mV
	120	120.3	120.29	0	N/A	118.296	122.305	1.5	0.2	0.40 V
	120	120.3	120.31	N/A	0	118.296	122.305	1.5	0.2	0.40 V
	270	270.2	270.89	0	N/A	265.947	274.453	1.5	0.2	0.52 V
	270	270	267.41	N/A	0.01	265.750	274.250	1.5	0.2	0.52 V

Touch Current (μ A) MD:1(A) (UL544NP)DC+AC @60hz	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty	
18.00 5800.00										
AC+DC @10mV	18	18.2	18.38	0.01	N/A	17.536	18.864	2	0.3	3.2 nA
AC+DC @10mV	18	18.3	18.45	N/A	0.01	17.634	18.966	2	0.3	3.2 nA

Before & After Data

Certificate: 240922 - 08206 - ██████████

REV: V1.00

Order #: 0

Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty		
				Before	After						
AC+DC @100mV	180	181.5	181.84	0	N/A	177.570	185.430	2	0.3	46 nA	
AC+DC @100mV	180	181.9		181.99	N/A	177.962	185.838	2	0.3	46 nA	
AC+DC @1V	4000	3981	3969.0		0	3898.380	4063.620	2	3	0.85 μA	
AC+DC @1V	4000	3992		3974.8	N/A	3909.160	4074.840	2	3	0.85 μA	
Touch Current (μA) MD:2(B) (UL544P) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 5800.00											
AC+DC @10mV	18	22.9	23.02		0.01	N/A	22.142	23.658	2	0.3	4.3 nA
AC+DC @10mV	18	23		23.14	N/A	0.01	22.240	23.760	2	0.3	4.3 nA
AC+DC @100mV	180	228.7	228.26		0	N/A	223.826	233.574	2	0.3	61 nA
AC+DC @100mV	180	229.3		228.73	N/A	0	224.414	234.186	2	0.3	61 nA
AC+DC @1V	5800	5815	5788.5		0	N/A	5695.700	5934.300	2	3	1.2 μA
AC+DC @1V	5800	5832		5795.4	N/A	0.01	5712.360	5951.640	2	3	1.2 μA
Touch Current (μA) MD:3(C) (IEC60601-1) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 5800.00											
AC+DC @10mV	18	23	23.00		0	N/A	22.240	23.760	2	0.3	4.3 nA
AC+DC @10mV	18	23.1		23.12	N/A	0	22.338	23.862	2	0.3	4.3 nA
AC+DC @100mV	180	228.8	228.08		0	N/A	223.924	233.676	2	0.3	61 nA
AC+DC @100mV	180	229.5		228.73	N/A	0	224.610	234.390	2	0.3	61 nA
AC+DC @1V	5800	5811	5788.5		0	N/A	5691.780	5930.220	2	3	1.2 μA
AC+DC @1V	5800	5826		5795.5	N/A	0.01	5706.480	5945.520	2	3	1.2 μA
Touch Current (μA) MD:4(D) (UL1563) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 5800.00											
AC+DC @10mV	18	38.5	38.66		0	N/A	37.430	39.570	2	0.3	7.9 nA
AC+DC @10mV	18	38.7		38.87	N/A	0	37.626	39.774	2	0.3	7.9 nA
AC+DC @100mV	180	382.3	381.26		0	N/A	374.354	390.246	2	0.3	0.11 μA
AC+DC @100mV	180	383.8		382.65	N/A	0	375.824	391.776	2	0.3	0.11 μA
AC+DC @1V	5800	6433	6441.2		0	N/A	6301.340	6564.660	2	3	5.5 μA
AC+DC @1V	5800	6452		6456.3	N/A	0	6319.960	6584.040	2	3	5.5 μA
Touch Current (μA) MD:5(E) (IEC60990_U2) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 5800.00											
AC+DC @10mV	18	16.9	16.81		0.01	N/A	16.262	17.538	2	0.3	34 nA
AC+DC @10mV	18	16.9		16.83	N/A	0	16.262	17.538	2	0.3	34 nA
AC+DC @100mV	180	161.3	160.92		0	N/A	157.774	164.826	2	0.3	17 nA
AC+DC @100mV	180	161.3		160.97	N/A	0	157.774	164.826	2	0.3	17 nA
AC+DC @1V	3000	3028	3005.0		0.01	N/A	2964.440	3091.560	2	3	0.65 μA
AC+DC @1V	3000	3028		3007.0	N/A	0.01	2964.440	3091.560	2	3	0.65 μA
Touch Current (μA) MD:6(H) (IEC60990_U3) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 5800.00											
AC+DC @10mV	18	16.9	16.80		0.01	N/A	16.262	17.538	2	0.3	2.7 nA
AC+DC @10mV	18	17		16.83	N/A	0.01	16.360	17.640	2	0.3	2.7 nA
AC+DC @100mV	180	103.7	103.00		0.01	N/A	101.326	106.074	2	0.3	11 nA
AC+DC @100mV	180	104		103.05	N/A	0.01	101.620	106.380	2	0.3	11 nA
AC+DC @1V	3000	3033	3005.2		0.01	N/A	2969.340	3096.660	2	3	0.65 μA
AC+DC @1V	3000	3040		3006.9	N/A	0.01	2976.200	3103.800	2	3	0.65 μA
Touch Current (μA) MD:7(I) (IEC60990_U1)@ DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 5800.00											

Before & After Data

Certificate: 240922 - 08206 - ██████████

REV: V1.00

Order #: 0

Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
				Before	After				

AC+DC @10mV	18	16.8	16.81		0	N/A	16.164	17.436	2	0.3	2.7 nA
AC+DC @10mV	18	16.8		16.84	N/A	0	16.164	17.436	2	0.3	2.7 nA
AC+DC @100mV	180	161.5	160.96		0	N/A	157.970	165.030	2	0.3	17 nA
AC+DC @100mV	180	161.6		161.00	N/A	0	158.068	165.132	2	0.3	17 nA
AC+DC @1V	3000	3039	3005.3		0.01	N/A	2975.220	3102.780	2	3	0.65 μA
AC+DC @1V	3000	3040		3007.0	N/A	0.01	2976.200	3103.800	2	3	0.65 μA

Earth Leakage (μA) MD:1(A) (UL544NP)@60hz	UUT METER READING	STANDARD READING	STANDARD READING								
10.00 8000.00											
AC Only	10	10.9	10.88		0	N/A	10.382	11.418	2	0.3	0.10 μA
AC Only	10	10.9		10.89	N/A	0	10.382	11.418	2	0.3	0.10 μA
	100	108	108.56		0.01	N/A	105.540	110.460	2	0.3	0.68 μA
	100	108.1		108.57	N/A	0	105.638	110.562	2	0.3	0.68 μA
	200	196	196.97		0	N/A	191.780	200.220	2	0.3	1.2 μA
	200	196.3		197.02	N/A	0	192.074	200.526	2	0.3	1.2 μA
	1800	1768	1774.3		0	N/A	1729.640	1806.360	2	3	13 μA
	1800	1769		1774.3	N/A	0	1730.620	1807.380	2	3	13 μA
	5800	5745	5768.0		0	N/A	5627.100	5862.900	2	3	37 μA
	5800	5750		5768.2	N/A	0	5632.000	5868.000	2	3	37 μA
	8000	7933	7965.8		0	N/A	7744.340	8121.660	2	30	50 μA
	8000	7941		7956.6	N/A	0	7752.180	8129.820	2	30	50 μA

Earth Leakage (μA) MD:2(B) (UL544P)@60hz	UUT METER READING	STANDARD READING	STANDARD READING								
10.00 8000.00											
AC Only	12	10.9	10.88		0	N/A	10.382	11.418	2	0.3	0.10 μA
AC Only	12	10.9		10.89	N/A	0	10.382	11.418	2	0.3	0.10 μA
	120	108.3	108.62		0	N/A	105.834	110.766	2	0.3	0.68 μA
	120	108.5		108.62	N/A	0	106.030	110.970	2	0.3	0.68 μA
	200	197.1	197.91		0	N/A	192.858	201.342	2	0.3	1.2 μA
	200	197.6		197.98	N/A	0	193.348	201.852	2	0.3	1.2 μA
	1800	1781	1783.0		0	N/A	1742.380	1819.620	2	3	14 μA
	1800	1783		1783.0	N/A	0	1744.340	1821.660	2	3	14 μA
	5800	6021	6024.5		0	N/A	5897.580	6144.420	2	3	39 μA
	5800	6029		6024.4	N/A	0	5905.420	6152.580	2	3	39 μA
	8000	8296	8313.1		0	N/A	8100.080	8491.920	2	30	52 μA
	8000	8316		8313.6	N/A	0	8119.680	8512.320	2	30	52 μA

Earth Leakage (μA) MD:3(C) (IEC60601-1) @60hz	UUT METER READING	STANDARD READING	STANDARD READING								
10.00 8000.00											
AC Only	12	10.9	10.88		0	N/A	10.382	11.418	2	0.3	0.10 μA
AC Only	12	10.9		10.88	N/A	0	10.382	11.418	2	0.3	0.10 μA
	120	108.2	108.61		0	N/A	105.736	110.664	2	0.3	0.68 μA
	120	108.3		108.62	N/A	0	105.834	110.766	2	0.3	0.68 μA
	200	197.4	198.02		0	N/A	193.152	201.648	2	0.3	1.2 μA
	200	197.1		197.92	N/A	0	192.858	201.342	2	0.3	1.2 μA
	1800	1780	1782.8		0	N/A	1741.400	1818.600	2	3	14 μA
	1800	1782		1783.1	N/A	0	1743.360	1820.640	2	3	14 μA
	5800	6017	6023.8		0	N/A	5893.660	6140.340	2	3	39 μA
	5800	6023		6023.6	N/A	0	5899.540	6146.460	2	3	39 μA
	8000	8239	8320.7		0.01	N/A	8044.220	8433.780	2	30	52 μA
	8000	8238		8312.5	N/A	0.01	8043.240	8432.760	2	30	52 μA

Earth Leakage (μA) MD:4(D) (UL1563)@60hz	UUT METER READING	STANDARD READING	STANDARD READING								
10.00 8000.00											

Before & After Data

Certificate: 240922 - 08206 - ██████████

REV: V1.00

Order #: 0

Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty		
				Before	After						
AC Only AC Only	12	10.8	10.88	0.01	N/A	10.284	11.316	2	0.3	0.09 μ A	
	12	10.8	10.88	N/A	0.01	10.284	11.316	2	0.3	0.09 μ A	
	120	108	108.66	0.01	N/A	105.540	110.460	2	0.3	0.68 μ A	
	120	108.2	108.67	N/A	0	105.736	110.664	2	0.3	0.68 μ A	
	200	197.6	198.89	0.01	N/A	193.348	201.852	2	0.3	1.2 μ A	
	200	198.3	199.01	N/A	0	194.034	202.566	2	0.3	1.2 μ A	
	1800	1785	1791.8	0	N/A	1746.300	1823.700	2	3	14 μ A	
	1800	1786	1791.8	N/A	0	1747.280	1824.720	2	3	14 μ A	
	5800	6304	6319.7	0	N/A	6174.920	6433.080	2	3	40 μ A	
	5800	6308	6319.9	N/A	0	6178.840	6437.160	2	3	40 μ A	
	8000	8680	8705.0	0	N/A	8476.400	8883.600	2	30	54 μ A	
	8000	8690	8705.7	N/A	0	8486.200	8893.800	2	30	54 μ A	
Earth Leakage (μ A) MD:5(E) (IEC60990_U2) @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
10.00 8000.00											
AC Only AC Only	12	10.8	10.87	0.01	N/A	10.284	11.316	2	0.3	0.09 μ A	
	12	10.8	10.88	N/A	0.01	10.284	11.316	2	0.3	0.09 μ A	
	120	108	108.50	0	N/A	105.540	110.460	2	0.3	0.68 μ A	
	120	108	108.51	N/A	0	105.540	110.460	2	0.3	0.68 μ A	
	200	195.3	196.09	0	N/A	191.094	199.506	2	0.3	1.2 μ A	
	200	195	196.03	N/A	0.01	190.800	199.200	2	0.3	1.2 μ A	
	1800	1760	1765.9	0	N/A	1721.800	1798.200	2	3	13 μ A	
	1800	1760	1766.0	N/A	0	1721.800	1798.200	2	3	13 μ A	
	5800	5521	5535.3	0	N/A	5407.580	5634.420	2	3	36 μ A	
	5800	5521	5535.3	N/A	0	5407.580	5634.420	2	3	36 μ A	
	8000	7617	7633.9	0	N/A	7434.660	7799.340	2	30	48 μ A	
	8000	7620	7635.2	N/A	0	7437.600	7802.400	2	30	48 μ A	
Earth Leakage (μ A) MD:6(H) (IEC60990_U3) @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
10.00 8000.00											
AC Only AC Only	12	10.8	10.87	0.01	N/A	10.284	11.316	2	0.3	0.09 μ A	
	12	10.8	10.88	N/A	0.01	10.284	11.316	2	0.3	0.09 μ A	
	120	107.9	108.49	0.01	N/A	105.442	110.358	2	0.3	0.68 μ A	
	120	108.2	108.49	N/A	0	105.736	110.664	2	0.3	0.68 μ A	
	200	195.2	196.09	0	N/A	190.996	199.404	2	0.3	1.2 μ A	
	200	195.8	196.13	N/A	0	191.584	200.016	2	0.3	1.2 μ A	
	1800	1760	1765.8	0	N/A	1721.800	1798.200	2	3	13 μ A	
	1800	1763	1766.0	N/A	0	1724.740	1801.260	2	3	13 μ A	
	5800	5524	5536.8	0	N/A	5410.520	5637.480	2	3	36 μ A	
	5800	5542	5545.1	N/A	0	5428.160	5655.840	2	3	36 μ A	
	8000	7621	7635.8	0	N/A	7438.580	7803.420	2	30	48 μ A	
	8000	7636	7636.8	N/A	0	7453.280	7818.720	2	30	48 μ A	
Earth Leakage (μ A) MD:7(I) (IEC60990_U1)@60hz		UUT METER READING	STANDARD READING	STANDARD READING							
200.00 8000.00											
	200	195.8	196.06	0	N/A	191.584	200.016	2	0.3	1.2 μ A	
	200	195.9	196.10	N/A	0	191.682	200.118	2	0.3	1.2 μ A	
	1800	1767	1765.85	0	N/A	1728.660	1805.340	2	3	13 μ A	
	1800	1766	1766.00	N/A	0	1727.680	1804.320	2	3	13 μ A	
	5800	5544	5535.5	0	N/A	5430.120	5657.880	2	3	36 μ A	
	5800	5540	5535.5	N/A	0	5426.200	5653.800	2	3	36 μ A	
	8000	7650	7633.8	0	N/A	7467.000	7833.000	2	30	48 μ A	
	8000	7648	7635.0	N/A	0	7465.040	7830.960	2	30	48 μ A	

Before & After Data

Certificate: 240922 - 08206 - ██████████

REV: V1.00

Order #: 0

Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
				Before	After				

Touch Current (µA) MD:1ko (FRQ. Check)	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
18.00 5800.00									
@50hz	18	18.14		0.01	N/A	17.340	18.660	2 0.3	3.8 nA
@50hz	18		18.19	N/A	0.01	17.340	18.660	2 0.3	3.8 nA
@9khz	18	18.14		0.01	N/A	17.340	18.660	2 0.3	5.2 nA
@9khz	18		18.16	N/A	0.01	17.340	18.660	2 0.3	5.2 nA
@200khz	18	17.9	18.2	0.02	N/A	17.005	18.795	5 0	71 nA
@200khz	18	17.9	18.2	N/A	0.02	17.005	18.795	5 0	71 nA
@1Mghz	18	18.1	18.2	0	N/A	17.195	19.005	5 0	0.23 µA
@1Mghz	18	18.1	18.1	N/A	0	17.195	19.005	5 0	0.23 µA
@50hz	180	181.34		0	N/A	177.080	184.920	2 0.3	53 nA
@50hz	180	181.2	181.39	N/A	0	177.276	185.124	2 0.3	53 nA
@9khz	180	181.2	181.43	0	N/A	177.276	185.124	2 0.3	53 nA
@9khz	180	181.4	181.50	N/A	0	177.472	185.328	2 0.3	53 nA
@200khz	180	179.8	181.6	0.01	N/A	170.810	188.790	5 0	0.73 µA
@200khz	180	180.2	181.7	N/A	0.01	171.190	189.210	5 0	0.73 µA
@1Mghz	180	185.2	183.8	0.01	N/A	175.940	194.460	5 0	2.3 µA
@1Mghz	180	185.8	183.2	N/A	0.01	176.510	195.090	5 0	2.3 µA
@50hz	5800	5672	5674.6	0	N/A	5555.560	5788.440	2 3	1.2 µA
@50hz	5800	5680	5677.7	N/A	0	5563.400	5796.600	2 3	1.2 µA
@9khz	5800	5680	5675.0	0	N/A	5563.400	5796.600	2 3	1.2 µA
@9khz	5800	5689	5678.1	N/A	0	5572.220	5805.780	2 3	1.2 µA
@200khz	5800	5634	5684.5	0.01	N/A	5352.300	5915.700	5 0	21 µA
@200khz	5800	5643	5688.1	N/A	0.01	5360.850	5925.150	5 0	21 µA
@1Mghz	5800	5692	5700.5	0	N/A	5407.400	5976.600	5 0	69 µA
@1Mghz	5800	5752	5748.1	N/A	0	5464.400	6039.600	5 0	70 µA

Touch Current (µA) MD:1(A) (UL544NP)DC	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
18.00 8000.00									
DC Only	18	18.03		0.01	N/A	17.536	18.864	2 0.3	0.27 nA
DC Only	18	18.2	18.12	N/A	0	17.536	18.864	2 0.3	0.27 nA
	180	180.21		0	N/A	176.492	184.308	2 0.3	1.98 nA
	180	180.7	180.41	N/A	0	176.786	184.614	2 0.3	1.99 nA
	5800	5724	5680.6	0.01	N/A	5606.520	5841.480	2 3	63 nA
	5800	5734	5684.3	N/A	0.01	5616.320	5851.680	2 3	63 nA
	6500	6476	6426.7	0.01	N/A	6152.200	6799.800	5 0	71 nA
	6500	6480	6429.5	N/A	0.01	6156.000	6804.000	5 0	71 nA

Touch Current (µA) MD:2(B) (UL544P) DC	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
18.00 8000.00									
DC Only	18	17.8	18.08	0.02	N/A	17.144	18.456	2 0.3	0.27 nA
DC Only	18	18	18.13	N/A	0.01	17.340	18.660	2 0.3	0.27 nA
	180	178.7	178.49	0	N/A	174.826	182.574	2 0.3	2.0 nA
	180	179.3	178.64	N/A	0	175.414	183.186	2 0.3	2.0 nA
	5800	5749	5702.2	0.01	N/A	5631.020	5866.980	2 3	63 nA
	5800	5760	5705.4	N/A	0.01	5641.800	5878.200	2 3	63 nA
	8000	7945	7869.2	0.01	N/A	7547.750	8342.250	5 0	0.09 µA
	8000	7971	7873.6	N/A	0.01	7572.450	8369.550	5 0	0.09 µA

Touch Current (µA) MD:3(C)(IEC60601-1) DC	UUT METER READING	STANDARD READING	STANDARD READING	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
18.00 8000.00									
DC Only	18	18	18.08	0	N/A	17.340	18.660	2 0.3	0.27 nA
DC Only	18	18.2	18.13	N/A	0	17.536	18.864	2 0.3	0.27 nA

Before & After Data

Certificate: 240922 - 08206 - ██████████

REV: V1.00

Order #: 0

Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty		
				Before	After						
	180	178.9	178.46		0	N/A	175.022	182.778	2	0.3	2.0 nA
	180	179.5		178.60	N/A	0	175.610	183.390	2	0.3	2.0 nA
	5800	8392	8376.8		0	N/A	8221.160	8562.840	2	3	92 nA
	5800	8420		8381.7	N/A	0	8248.600	8591.400	2	3	93 nA
	8000	7878	7868.9		0	N/A	7484.100	8271.900	5	0	0.09 μA
	8000	7904		7873.5	N/A	0	7508.800	8299.200	5	0	0.09 μA
Touch Current (μA) MD:4(D) (UL1563) DC		UUT METER READING	STANDARD READING	STANDARD READING							
30.00 8000.00											
	30	29.2	29.93		0.02	N/A	28.316	30.084	2	0.3	0.44 nA
	30	29.5		30.07	N/A	0.02	28.610	30.390	2	0.3	0.44 nA
	300	294.7	296.23		0.01	N/A	288.506	300.894	2	0.3	3.2 nA
	300	296.7		296.60	N/A	0	290.466	302.934	2	0.3	3.3 nA
	1100	160.4	160.7		0	N/A	154.192	166.608	2	3	2 nA
	1100	161.7		161.0	N/A	0	155.466	167.934	2	3	2 nA
	8000	7433	7397.6		0	N/A	7061.350	7804.650	5	0	0.10 μA
	8000	7456		7405.1	N/A	0.01	7083.200	7828.800	5	0	0.10 μA
	8000	7887	7849.8		0	N/A	7726.260	8047.740	2	3	0.10 μA
	8000	7910		7857.7	N/A	0.01	7748.800	8071.200	2	3	0.10 μA
Touch Current (μA) MD:5(E) (IEC60990_U2) DC		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 18000.00											
DC Only	18	16.6	18.02		0.09	N/A	15.968	17.232	2	0.3	0.25 nA
DC Only	18	18.5		18.06	N/A	0.02	17.830	19.170	2	0.3	0.28 nA
	180	192.6	192.39		0	N/A	188.448	196.752	2	0.3	2.9 nA
	180	193.8		192.46	N/A	0.01	189.624	197.976	2	0.3	2.9 nA
	1500	4888	4862.2		0.01	N/A	4787.240	4988.760	2	3	54 nA
	1500	4897		4864.1	N/A	0.01	4796.060	4997.940	2	3	54 nA
	5000	4893	4862.3		0.01	N/A	4648.350	5137.650	5	0	54 nA
	5000	4902		4864.3	N/A	0.01	4656.900	5147.100	5	0	54 nA
Touch Current (μA) MD:6(H) (IEC60990_U3) DC		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 8000.00											
DC Only	18	180.8	180.20		0	N/A	176.884	184.716	2	0.3	2.71 nA
DC Only	18	182		180.27	N/A	0.01	178.060	185.940	2	0.3	2.73 nA
	180	192.8	192.39		0	N/A	188.644	196.956	2	0.3	2.9 nA
	180	194.3		192.45	N/A	0.01	190.114	198.486	2	0.3	2.9 nA
	1500	4892	4862.1		0.01	N/A	4791.160	4992.840	2	3	54 nA
	1500	4907		4863.9	N/A	0.01	4805.860	5008.140	2	3	54 nA
	5000	4892	4862.2		0.01	N/A	4647.400	5136.600	5	0	54 nA
	5000	4907		4864.0	N/A	0.01	4661.650	5152.350	5	0	54 nA
Touch Current (μA) MD:7(I) (IEC60990_U1)@ DC		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 8000.00											
DC Only	18	16.2	18.0		0.11	N/A	15.576	16.824	2	0.3	0.24 nA
DC Only	18	18		18.1	N/A	0	17.340	18.660	2	0.3	0.27 nA
	180	192.2	192.37		0	N/A	188.056	196.344	2	0.3	2.9 nA
	180	192		192.46	N/A	0	187.860	196.140	2	0.3	2.9 nA
	1500	4888	4862.30		0.01	N/A	4789.940	4986.060	2	0.3	54 nA
	1500	4892		4864.14	N/A	0.01	4791.160	4992.840	2	3	54 nA
	5000	4888	4862.3		0.01	N/A	4643.600	5132.400	5	0	54 nA
	5000	4892		4864.3	N/A	0.01	4647.400	5136.600	5	0	54 nA

Before & After Data

Certificate: 240922 - 08206 - ██████████

REV: V1.00

Order #: 0

Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS		Measurement uncertainty	
				Before	After			%Rdg	+(Value)		
Peak Display T.C (µA) MD:1(A) (UL544NP) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 8000.00											
DC Only@10mV	18	18.6	18.7		0	N/A	16.228	20.972	2	2	3.2 nA
DC Only@10mV	18	18.7	18.7	18.7	N/A	0	16.326	21.074	2	2	3.2 nA
AC Only	180	178.9	178.4		0	N/A	159.010	198.790	10	2	46 nA
AC Only	180	179.1		178.4	N/A	0	159.190	199.010	10	2	46 nA
	5800	5479	5451.8		0	N/A	4929.100	6028.900	10	2	1.1 µA
	5800	5489		5454.9	N/A	0.01	4938.100	6039.900	10	2	1.1 µA
DC Only @10V	6500	6407	6427.0		0	N/A	6275.860	6538.140	2	3	1.3 µA
DC Only @10V	6500	6420		6429.6	N/A	0	6288.600	6551.400	2	3	1.3 µA
Peak Display T.C (µA) MD:2(B) (UL544P)DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 8000.00											
DC Only@10mV	18	18.9	19.0		0	N/A	16.522	21.278	2	2	3.9 nA
DC Only@10mV	18	19		19.1	N/A	0	16.620	21.380	2	2	3.9 nA
AC Only	180	179.1	178.7		0	N/A	159.190	199.010	10	2	52 nA
AC Only	180	179.2		178.7	N/A	0	159.280	199.120	10	2	52 nA
	5800	5804	5762.5		0.01	N/A	5221.600	6386.400	10	2	1.2 µA
	5800	5811		5762.3	N/A	0.01	5227.900	6394.100	10	2	1.2 µA
DC Only @10V	8000	7917	7923.7		0	N/A	7755.660	8078.340	2	3	1.6 µA
DC Only @10V	8000	7929		7927.4	N/A	0	7767.420	8090.580	2	3	1.6 µA
Peak Display T.C (µA) MD:3(C) (IEC60601-1) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 8000.00											
DC Only@10mV	18	19	19.0		0	N/A	16.620	21.380	2	2	3.9 nA
DC Only@10mV	18	19		19.1	N/A	0	16.620	21.380	2	2	3.9 nA
AC Only	180	178.8	178.7		0	N/A	158.920	198.680	10	2	52 nA
AC Only	180	178.8		178.7	N/A	0	158.920	198.680	10	2	52 nA
	5800	5794	5761.9		0.01	N/A	5212.600	6375.400	10	2	1.2 µA
	5800	5803		5761.6	N/A	0.01	5220.700	6385.300	10	2	1.2 µA
DC Only @10V	8000	7921	7923.2		0	N/A	7759.580	8082.420	2	3	1.6 µA
DC Only @10V	8000	7933		7926.6	N/A	0	7771.340	8094.660	2	3	1.6 µA
Peak Display T.C (µA) MD:4(D) (UL1563)DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 8000.00											
DC Only@10mV	18	18	18.2		0.01	N/A	15.640	20.360	2	2	5.8 nA
DC Only@10mV	18	18.2		18.3	N/A	0	15.836	20.564	2	2	5.8 nA
AC Only	180	179.9	179.0		0.01	N/A	159.910	199.890	10	2	72 nA
AC Only	180	179.6		179.0	N/A	0	159.640	199.560	10	2	72 nA
	5800	5630	5649.9		0	N/A	5065.000	6195.000	10	2	5.4 µA
	5800	5644		5655.0	N/A	0	5077.600	6210.400	10	2	5.4 µA
DC Only @10V	8000	8130	8107.3		0	N/A	7964.400	8295.600	2	3	6.0 µA
DC Only @10V	8000	8143		8106.5	N/A	0	7977.140	8308.860	2	3	6.0 µA
Peak Display T.C (µA) MD:5(E) (IEC60990_U2) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 8000.00											
DC Only@10mV	18	19	18.9		0	N/A	16.620	21.380	2	2	2.9 nA
DC Only@10mV	18	19		19.0	N/A	0	16.620	21.380	2	2	2.9 nA
AC Only	180	189.9	188.5		0.01	N/A	168.910	210.890	10	2	20.0 nA
AC Only	180	189.6		188.3	N/A	0.01	168.640	210.560	10	2	20.0 nA
	4200	4854	4862.3		0	N/A	4366.600	5341.400	10	2	0.97 µA
	4200	4856		4864.1	N/A	0	4368.400	5343.600	10	2	0.97 µA

Before & After Data

Certificate: 240922 - 08206 - ██████████

REV: V1.00

Order #: 0

Instrument Identification

Company: ██████████

Temperature: (23+/- 5) DEG C

Address: ██████████

Humidity: (50+/-10) %RH

Model: 08206

Serial: ██████████

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE TESTED SETTING	Target Value	Before	After	Rdg error %		Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)		Measurement uncertainty	
				Before	After						
DC Only @10V	5000	4167	4123.8		0.01	N/A	4080.660	4253.340	2	3	0.85 μ A
DC Only @10V	5000	4170		4124.2	N/A	0.01	4083.600	4256.400	2	3	0.85 μ A
Peak Display T.C (μA) MD:6(H) (IEC60990_U3) DC+AC @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
18.00 8000.00											
DC Only@10mV	18	18.9	18.9		0	N/A	16.522	21.278	2	2	2.9 nA
DC Only@10mV	18	19		19.0	N/A	0	16.520	21.380	2	2	2.9 nA
AC Only	180	190.2	188.5		0.01	N/A	169.180	211.220	10	2	20.0 nA
AC Only	180	190.4		188.3	N/A	0.01	169.360	211.440	10	2	20.0 nA
	4200	4853	4862.2		0	N/A	4365.700	5340.300	10	2	0.97 μ A
	4200	4871		4863.8	N/A	0	4381.900	5360.100	10	2	0.98 μ A
DC Only @10V	5000	4172	4123.7		0.01	N/A	4085.560	4258.440	2	3	0.85 μ A
DC Only @10V	5000	4184		4124.2	N/A	0.01	4097.320	4270.680	2	3	0.85 μ A
Run Test Current Meter RMS (A) @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
0.50 9.00											
	0.5	0.49	0.500		0.02	N/A	0.460	0.520	2	0.02	2.2 mA
	0.5	0.48		0.490	N/A	0.02	0.450	0.510	2	0.02	2.2 mA
	5	5.03	5.050		0	N/A	4.909	5.151	2	0.02	15 mA
	5	5.03		5.042	N/A	0	4.909	5.151	2	0.02	15 mA
	9	9.17	9.176		0	N/A	8.967	9.373	2	0.02	18 mA
	9	9.17		9.171	N/A	0	8.967	9.373	2	0.02	18 mA
Power Metering (W)		UUT METER READING	STANDARD READING	STANDARD READING							
10.00 2500.00											
	10	8	9.8		0.23	N/A	4.600	11.400	5	3	0.11 W
	10	9		9.8	N/A	0.09	5.550	12.450	5	3	0.13 W
	110	110	111.3		0.01	N/A	101.500	118.500	5	3	1.5 W
	110	110		111.4	N/A	0.01	101.500	118.500	5	3	1.5 W
@200v	1400	1870	1868.1		0	N/A	1773.500	1966.500	5	3	26 W
@200v	1400	1871		1867.9	N/A	0	1774.450	1967.550	5	3	26 W
@270v	2500	3268	3260.6		0	N/A	3101.600	3434.400	5	3	46 W
@270v	2500	3269		3260.5	N/A	0	3102.550	3435.450	5	3	46 W
Power Factor Metering (W / VA)		UUT METER READING	STANDARD READING	STANDARD READING							
0.25 1.00											
	0.25	0.244	0.244		0	N/A	0.222	0.266	8	0.002	2.6 ‰
	0.25	0.242		0.242	N/A	0	0.221	0.263	8	0.002	2.6 ‰
	0.7	0.543	0.503		0.07	N/A	0.498	0.588	8	0.002	2.3 ‰
	0.7	0.556		0.526	N/A	0.05	0.510	0.602	8	0.002	2.3 ‰
	1	0.993	1.000		0.01	N/A	0.912	1.074	8	0.002	2.3 ‰
	1	0.993		1.000	N/A	0.01	0.912	1.074	8	0.002	2.3 ‰
Run Test Leakage Current(mA) @60hz		UUT METER READING	STANDARD READING	STANDARD READING							
0.50 9.00											
	0.5	0.49	0.489		0	N/A	0.460	0.520	2	0.02	5.9 μ A
	0.5	0.49		0.490	N/A	0	0.460	0.520	2	0.02	5.9 μ A
	5	5	4.995		0	N/A	4.880	5.120	2	0.02	33 μ A
	5	5.01		4.995	N/A	0	4.890	5.130	2	0.02	33 μ A
	9	8.94	8.940		0	N/A	8.741	9.139	2	0.02	56 μ A
	9	8.96		8.941	N/A	0	8.761	9.159	2	0.02	56 μ A

Before & After Data

Certificate: 240922 - 08206 - [REDACTED]

REV: V1.00

Order #: 0

Instrument Identification

Company: [REDACTED]

Temperature: (23+/- 5) DEG C

Address: [REDACTED]

Humidity: (50+/-10) %RH

Model: 08206

Serial: [REDACTED]

Issue Date: Sep, 22 / 2024

N/A stands for Not Applicable and asterisk (*) refers to unaccredited calibrations.

MODE	Target Value	Before	After	Rdg error %	Lower Limit	Upper Limit	UUT SPECS %Rdg +(Value)	Measurement uncertainty
				Before After				
TESTED SETTING								

Certified

Jenson.P