

Manufacturer	KEITHLEY INSTRUMENTS	Calibration date	August 27 2024
Model Number	Model 2002	Ambient Temperature	23.62 °C
Serial	0943593	Relative Humidity	53.20 %
ID Number	Calibration test for SergiyS	Pressure	1011.53 hPa
Notes	Test as patched, before adjustments, Hulk-1 calibrator	Test type	Front inputs, Fluke cables

Reference standard	Mfg	Model	Options	Serial / Unc	CEID	Calibration date	Due date
DCC	MIL	6010B		REDACTED	XR01	PROCESS	PROCESS
DCC	MIL	6000A		REDACTED	XR02	PROCESS	PROCESS
MFC	Fluke	5720A	03/HLK	7530212	XHC1	06/07/2024	12/07/2024
Amplifier	Fluke	5725A		5930005	XHB1	06/07/2024	12/07/2024
DC STD ARRAY	xDevs.com	XB1	MATRIX	±0.8 ppm	XVB04	NOV.22	SEP.24
DC STD	xDevs.com/Fluke	732Bx	10.0000960 VDC	±0.5 ppm	XVB04	PROCESS	PROCESS
DC STD	xDevs.com	792X[2]	9.99997622 VDC	±0.3 ppm	XVB01	PROCESS	PROCESS
STDR	ESI	SR104	10000.0025 KΩ	±0.2 ppm	G202088930104	08/02/2024	08/02/2025
STDR	xDevs.com/Fluke	SL935	1.00006354 Ω	±0.4 ppm	XR03	08/04/2024	09/04/2024
STDR	xDevs.com/Fluke	SL935	9999.9775 kΩ	±0.25 ppm	XR02	08/02/2024	08/02/2025
DMM	HP	3458A	001,X02	MY45040325	XD2	PROCESS	PROCESS
DMM	HP	3458A	001,X02	Process DMM	XD3	PROCESS	PROCESS
Divider	Fluke	752A	4295200		XR01	PROCESS	PROCESS
ARB	Keysight	33522B			XG05	PROCESS	PROCESS

MFC last calibrated	81.0 days ago	MFC since DCV ZERO	5.0 days ago
MFC since WBFLAT	73.0 days ago	MFC since WBGAIN	75.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2024-06-07 00:00:00

MFC Calibrate date Zero	2024-08-22 00:00:00	Calibrate date WB Flatness	2024-06-15 00:00:00
Calibrate date WB Gain	2024-06-13 00:00:00	CAL CONST 6.5V reference voltage	6.95747100962
CAL CONST 13V reference voltage	13.8552886595	CAL CONST 22V range positive zero	398.17763
CAL CONST 22V range negative zero	398.17709	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	9999.81966037	CAL CONST 10KOHM standard resistance	9998.75912847
CAL CONST, Zero calibration temperature	23.3999996185	CAL CONST, All calibration temp	23.3999996185
Booster type	VB5725,IB5725	Current output posts	AUX
Calibrate date 5725A AMP	2024-06-07 00:00:00	Calibrated days ago	Debug
CAL CONST, Amp ACAL temperature	25.3999996185	CAL CONST, Amp CalCheck temperature	23.3999996185

Total uncertainty of each calibration point calculated with RSS

$$U_{95\%} = \sqrt{U_{SRC}^2 + U_{DUT}^2} * 2$$

Meter Info	KEITHLEY INSTRUMENTS INC.,MODEL 2002,0943593,A09 /A02	Test date start	27 August 2024 15:53
Test specification interval	24 hour DUT spec	Line frequency	120V 60 Hz
Next calibration date	2005,04,29	Last calibration date	2004,04,29
DUT Δ temperature to cal	0.10 °C	Last calibration temperature	23.72 °C

Service information

Last calibration temperature

23.72 °C

All CAL values

9.992108E-01,1.064837E-04,9.991206E+00,-4.035998E-05,9.998989E-01,3.701973E-06,9.997594E+00,-6.836578E-06,1.000053E+02,4.962422E+02,2.900566E-03,7.118395E-03,2.292753E-03,2.952619E-03,7.247845E-03,1.105000E+02,1.140000E+02,-3.497474E-05,-3.490595E-05,-3.501504E-05,-3.429657E-05,-3.448210E-05,-3.542175E-05,-6.941446E-07,-2.752655E-06,-7.934814E-07,-3.536733E-07,-1.428579E-06,-1.912650E-05,-2.557009E-07,-3.210159E-07,-9.232959E-07,-6.853846E-07,-8.571478E-07,1.423136E+00,1.423136E+00,5.010035E-06,1.423119E+00,1.423113E+00,-8.482540E-07,1.423136E+00,1.423136E+00,6.195256E-05,1.423177E+00,1.423113E+00,-1.146995E-05,1.778833E+00,1.778831E+00,7.727980E-04,1.779334E+00,1.778546E+00,-1.165246E-05,1.778831E+00,1.778831E+00,5.909673E-03,1.784471E+00,1.778545E+00,1.070350E+00,2.675788E-01,2.675752E+00,1.070256E-01,1.337690E+00,7.271471E-01,2.666507E-01,5.333242E-01,1.013391E+00,2.436529E+00,1.443404E+00,1.013396E+00,2.436534E+00,1.425165E+00,1.266648E+00,3.045491E+00,1.781375E+00,9.498974E-01,2.728741E+00,1.779093E+00,1.337572E+00,1.337715E+00,1.339999E+00,1.355222E+00,7.084787E-01,1.999919E+00,1.900001E+00,1.900001E+01,9.999792E+05,9.999904E+04,1.899945E+04,1.900040E+03,1.900079E+02,1.900015E+01,1.900005E-04,1.900002E-03,1.899996E-02,1.900000E-01,1.000000E+00,4.838504E+01,1.998168E+00,1.998542E+00,1.105000E+02,4.026084E-01,1.998655E+00,1.095000E+02,1.160000E+02,1.498431E+00,1.498934E+00,1.998596E+00,9.600000E+01,1.220000E+02,4.895878E-03,5.633039E-01,1.408214E-01,-1.408178E+00,-9.227188E-07,-1.649075E-06,-2.184056E-05,-3.474199E-09,-3.703498E-07,1.356318E-07,-8.093438E-07,1.417463E-07,5.013930E-06,1.395229E-07,6.332838E-05,1.232647E-06,7.896005E-04,2.413875E-06,6.050987E-03,1.999208E+00,2.000020E+00,3.884958E-01,7.056436E-01

Reference

Performance check

DUT Condition

Ambient +23.4C

Test procedure : \$Id: k2002.py | Rev 2958 | 2024/08/27 18:56:35 llyya \$

Source procedure : \$Id: f5720b.py | Rev 2927 | 2024/08/20 07:25:23 tin_sl \$

Main DC Voltage ranges performance test.

Checks zero offset and +/-FS calibration on all ranges

The following test for the offset voltage specification using MFC 0V source in 4-wire ext sense mode as reference.

DCV gain range points verify gain of the DC voltage function, using uncorrected 24-hour MFC output. DC voltage offset of DUT is nulled before FS tests.

Test Description	Measured Value	Measurement Uncertainty	Lower Limit	Upper Limit	Deviation	DUT Spec	Test Status
Short 0 mVDC	0.62 µV	1.40 µV	-2.600 µV	2.600 µV	N/A	1.20 µV	PASS
Short 0.0 VDC	0.60 µV	1.40 µV	-5.400 µV	5.400 µV	N/A	4.00 µV	PASS
Short 00.0 VDC	-0.90 µV	1.40 µV	-81.400 µV	81.400 µV	N/A	80.00 µV	PASS
Short 000.0 VDC	99.00 µV	1.40 µV	-601.400 µV	601.400 µV	N/A	0.60 mV	PASS
Short 0000.0 VDC	60.00 µV	1.40 µV	-6001.400 µV	6001.400 µV	N/A	6.00 mV	PASS
DCV Test	Measured Value	Reference uncertainty	Low Limit	Hi limit	Measured deviation	24h spec	Result
0.02 VDC (0.20 Range)	0.020001667	22.5 µV/V	0.01999888	0.02000112	83.3 µV/V	33.5 µV/V	FAIL 206.54 %
0.1 VDC (0.20 Range)	0.1000085	9.5 µV/V	0.0999981	0.1000019	85.0 µV/V	9.5 µV/V	FAIL 632.53 %
0.2 VDC (0.20 Range)	0.20001664	4.5 µV/V	0.1999978	0.2000022	83.2 µV/V	6.5 µV/V	FAIL 1052.66 %
-0.02 VDC (0.20 Range)	-0.020002202	22.5 µV/V	-0.02000112	-0.01999888	110.1 µV/V	33.5 µV/V	FAIL 272.83 %
-0.1 VDC (0.20 Range)	-0.10000928	9.5 µV/V	-0.1000019	-0.0999981	92.8 µV/V	9.5 µV/V	FAIL 690.73 %
-0.2 VDC (0.20 Range)	-0.20001813	4.5 µV/V	-0.2000022	-0.1999978	90.6 µV/V	6.5 µV/V	FAIL 1146.52 %
0.2 VDC (2.00 Range)	0.20000487	6.0 µV/V	0.19999796	0.20000204	24.3 µV/V	4.2 µV/V	FAIL 332.47 %
1.0 VDC (2.00 Range)	1.0000228	3.2 µV/V	0.999995	1.000005	22.8 µV/V	1.8 µV/V	FAIL 619.91 %
1.9 VDC (2.00 Range)	1.9000432	2.9 µV/V	1.8999917	1.9000083	22.7 µV/V	1.5 µV/V	FAIL 700.20 %
2.0 VDC (2.00 Range)	2.0000453	2.9 µV/V	1.9999913	2.0000087	22.6 µV/V	1.5 µV/V	FAIL 702.97 %
-0.2 VDC (2.00 Range)	-0.2000065	6.0 µV/V	-0.20000204	-0.19999796	32.5 µV/V	4.2 µV/V	FAIL 443.75 %
-1.0 VDC (2.00 Range)	-1.0000264	3.2 µV/V	-1.000005	-0.999995	26.4 µV/V	1.8 µV/V	FAIL 719.59 %
-1.9 VDC (2.00 Range)	-1.9000489	2.9 µV/V	-1.9000083	-1.8999917	25.7 µV/V	1.5 µV/V	FAIL 792.95 %
-2.0 VDC (2.00 Range)	-2.0000503	2.9 µV/V	-2.0000087	-1.9999913	25.1 µV/V	1.5 µV/V	FAIL 780.28 %
1.0 VDC (20.00 Range)	1.0000235	7.0 µV/V	0.9999898	1.0000102	23.5 µV/V	3.2 µV/V	FAIL 305.32 %
10.0 VDC (20.00 Range)	10.000224	1.9 µV/V	9.999967	10.000033	22.4 µV/V	1.4 µV/V	FAIL 949.54 %
19.0 VDC (20.00 Range)	19.00042	1.7 µV/V	18.999943	19.000057	22.1 µV/V	1.3 µV/V	FAIL 1027.81 %
20.0 VDC (20.00 Range)	20.000445	1.7 µV/V	19.99994	20.00006	22.2 µV/V	1.3 µV/V	FAIL 1038.97 %
-1.0 VDC (20.00 Range)	-1.0000268	7.0 µV/V	-1.0000102	-0.9999898	26.8 µV/V	3.2 µV/V	FAIL 348.20 %

-10.0 VDC (20.00 Range)	-10.00023	1.9 $\mu\text{V/V}$	-10.000033	-9.999967	23.0 $\mu\text{V/V}$	1.4 $\mu\text{V/V}$	FAIL 976.24 %
-19.0 VDC (20.00 Range)	-19.000435	1.7 $\mu\text{V/V}$	-19.000057	-18.999943	22.9 $\mu\text{V/V}$	1.3 $\mu\text{V/V}$	FAIL 1063.28 %
-20.0 VDC (20.00 Range)	-20.000456	1.7 $\mu\text{V/V}$	-20.00006	-19.99994	22.8 $\mu\text{V/V}$	1.3 $\mu\text{V/V}$	FAIL 1065.61 %
10 VDC (200.00 Range)	10.000366	6.5 $\mu\text{V/V}$	9.999805	10.000195	36.6 $\mu\text{V/V}$	13.0 $\mu\text{V/V}$	FAIL 251.82 %
100 VDC (200.00 Range)	100.00279	2.9 $\mu\text{V/V}$	99.99913	100.00087	27.9 $\mu\text{V/V}$	5.8 $\mu\text{V/V}$	FAIL 430.56 %
200 VDC (200.00 Range)	200.00535	2.7 $\mu\text{V/V}$	199.99838	200.00162	26.7 $\mu\text{V/V}$	5.4 $\mu\text{V/V}$	FAIL 442.99 %
-10 VDC (200.00 Range)	-10.000198	6.5 $\mu\text{V/V}$	-10.000195	-9.999805	19.8 $\mu\text{V/V}$	13.0 $\mu\text{V/V}$	FAIL 136.23 %
-100 VDC (200.00 Range)	-100.00278	2.9 $\mu\text{V/V}$	-100.00087	-99.99913	27.8 $\mu\text{V/V}$	5.8 $\mu\text{V/V}$	FAIL 429.17 %
-200 VDC (200.00 Range)	-200.00555	2.7 $\mu\text{V/V}$	-200.00162	-199.99838	27.8 $\mu\text{V/V}$	5.4 $\mu\text{V/V}$	FAIL 459.72 %
100 VDC (1000.00 Range)	100.00267	7.0 $\mu\text{V/V}$	99.99872	100.00128	26.7 $\mu\text{V/V}$	5.8 $\mu\text{V/V}$	FAIL 293.71 %
200 VDC (1000.00 Range)	200.00524	5.0 $\mu\text{V/V}$	199.99792	200.00208	26.2 $\mu\text{V/V}$	5.4 $\mu\text{V/V}$	FAIL 356.01 %
1000 VDC (1000.00 Range)	1000.031	3.4 $\mu\text{V/V}$	999.98152	1000.0185	31.0 $\mu\text{V/V}$	5.1 $\mu\text{V/V}$	FAIL 293.59 %
-100 VDC (1000.00 Range)	-100.00267	7.0 $\mu\text{V/V}$	-100.00128	-99.99872	26.7 $\mu\text{V/V}$	5.8 $\mu\text{V/V}$	FAIL 293.71 %
-200 VDC (1000.00 Range)	-200.00524	5.0 $\mu\text{V/V}$	-200.00208	-199.99792	26.2 $\mu\text{V/V}$	5.4 $\mu\text{V/V}$	FAIL 356.01 %
-1000 VDC (1000.00 Range)	-1000.0311	3.4 $\mu\text{V/V}$	-1000.0185	-999.98152	31.1 $\mu\text{V/V}$	5.1 $\mu\text{V/V}$	FAIL 293.97 %

4W test procedure for all test points that verify Gain of the OHMF function. 4-wire kelvin connection is used between DMM and MFC.
 1GΩ resistance range is NOT tested, as MFC unable to provide this range value.

OHM Test	Reference	Measured DUT	Reference uncertainty	Low Limit	Hi limit	Measured deviation	24h spec	Result
1 Ω	0.9998117 Ω	0.9998586 Ω	32.0 μΩ/Ω	0.999684707	0.999938693	46.9 μΩ/Ω	95.0 μΩ/Ω	PASS , 46.79 % of 100.3 μΩ/Ω
1.9 Ω	1.8998873 Ω	1.8999557 Ω	25.0 μΩ/Ω	1.8997403	1.9000343	36.0 μΩ/Ω	52.4 μΩ/Ω	PASS , 62.49 % of 57.6 μΩ/Ω
10 Ω	10.000487 Ω	10.0011094 Ω	5.0 μΩ/Ω	10.000297	10.000677	62.2 μΩ/Ω	14.0 μΩ/Ω	FAIL , 427.46 % of 14.6 μΩ/Ω
19 Ω	19.000192 Ω	19.0013504 Ω	4.0 μΩ/Ω	18.999931	19.000453	61.0 μΩ/Ω	9.7 μΩ/Ω	FAIL , 579.19 % of 10.5 μΩ/Ω
100 Ω	99.99548 Ω	0.100001 kΩ	1.7 μΩ/Ω	99.99421	99.99675	59.0 μΩ/Ω	11.0 μΩ/Ω	FAIL , 529.63 % of 11.1 μΩ/Ω
190 Ω	189.99083 Ω	0.190002 kΩ	1.7 μΩ/Ω	189.988957	189.992703	56.6 μΩ/Ω	8.2 μΩ/Ω	FAIL , 679.55 % of 8.3 μΩ/Ω
1.0 kΩ	1000.0213 Ω	1.0000215 kΩ	1.7 μΩ/Ω	1000.0165	1000.0261	0.2 μΩ/Ω	3.1 μΩ/Ω	PASS , 5.94 % of 3.5 μΩ/Ω
1.9 kΩ	1899.8666 Ω	1.8998645 kΩ	1.7 μΩ/Ω	1899.85802	1899.87518	-1.1 μΩ/Ω	2.8 μΩ/Ω	PASS , 33.61 % of 3.3 μΩ/Ω
10 kΩ	9999.813 Ω	9.9996681 kΩ	1.6 μΩ/Ω	9999.766	9999.86	-14.5 μΩ/Ω	3.1 μΩ/Ω	FAIL , 415.37 % of 3.5 μΩ/Ω
19 kΩ	18999.296 Ω	18.9989960 kΩ	1.7 μΩ/Ω	18999.2102	18999.3818	-15.8 μΩ/Ω	2.8 μΩ/Ω	FAIL , 480.06 % of 3.3 μΩ/Ω
100 kΩ	99994.94 Ω	99.99250 kΩ	2.0 μΩ/Ω	99994.09	99995.79	-24.4 μΩ/Ω	6.5 μΩ/Ω	FAIL , 359.09 % of 6.8 μΩ/Ω
190 kΩ	189989.44 Ω	189.98462 kΩ	2.0 μΩ/Ω	189987.915	189990.965	-25.4 μΩ/Ω	6.0 μΩ/Ω	FAIL , 399.88 % of 6.3 μΩ/Ω
1.0 MΩ	999983.1 Ω	0.999969 MΩ	2.5 μΩ/Ω	999968	999998.2	-14.2 μΩ/Ω	12.6 μΩ/Ω	FAIL , 110.16 % of 12.8 μΩ/Ω
1.9 MΩ	1899979.3 Ω	1.899944 MΩ	3.0 μΩ/Ω	1899950.2	1900008.4	-18.4 μΩ/Ω	12.3 μΩ/Ω	FAIL , 147.13 % of 12.5 μΩ/Ω
10 MΩ	9999091 Ω	9.998274 MΩ	10.0 μΩ/Ω	9998487.05	9999694.95	-81.7 μΩ/Ω	50.4 μΩ/Ω	FAIL , 159.08 % of 51.4 μΩ/Ω
19 MΩ	18998703 Ω	18.996983 MΩ	20.0 μΩ/Ω	18997369.1	19000036.9	-90.5 μΩ/Ω	50.2 μΩ/Ω	FAIL , 167.47 % of 54.0 μΩ/Ω
100 MΩ	100003760 Ω	99.99813 MΩ	50.0 μΩ/Ω	99983559.2	100023961	-56.3 μΩ/Ω	152.0 μΩ/Ω	PASS , 35.16 % of 160.0 μΩ/Ω
1 GΩ STD	1.000037 GΩ	0.00000000 GΩ	0 μΩ/Ω	9.9928197E+08	1.000792E+09	-1.0000 %	755 μΩ/Ω	FAIL , 132450.33 % of 755.0 μΩ/Ω

4W and 2W Zero test procedure for all ranges that verify Zero offset of the resistance function on the FRONT inputs.

OHM ZERO 4-wire FRONT	Maximum specification	Low Limit	Hi limit	DUT Measured	Result
20 Ω Range (4w FRONT)	5E-05 Ω	-5e-05	5e-05	-0.0000084 Ω	PASS
200 Ω Range (4w FRONT)	5E-05 Ω	-5e-05	5e-05	-0.0002590 Ω	FAIL
2 kΩ Range (4w FRONT)	5E-05 Ω	-5e-05	5e-05	0.0000500 Ω	FAIL
20 kΩ Range (4w FRONT)	5E-05 Ω	-5e-05	5e-05	-0.0015000 Ω	FAIL
200 kΩ Range (4w FRONT)	5E-05 Ω	-5e-05	5e-05	-0.0009000 Ω	FAIL
OHM ZERO 2-wire FRONT	Maximum specification	Low Limit	Hi limit	DUT Measured	Result
20 Ω Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.0035465 Ω	PASS
200 Ω Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.0044090 Ω	PASS
2 kΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.0043700 Ω	PASS
20 kΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.0133000 Ω	PASS
200 kΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.1110000 Ω	PASS
2 MΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.5300000 Ω	FAIL
20 MΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.7000000 Ω	FAIL
200 MΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.0000000 Ω	PASS
1 GΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.0000000 Ω	PASS

4W and 2W Zero test procedure for all ranges that verify Zero offset of the resistance function on the REAR inputs

OHM ZERO 4-wire REAR	Maximum specification	Low Limit	Hi limit	DUT Measured	Result
20 Ω Range (4w REAR)	5E-05 Ω	-5e-05	5e-05	0.0000119 Ω	PASS
200 Ω Range (4w REAR)	5E-05 Ω	-5e-05	5e-05	-0.0002920 Ω	FAIL
2 kΩ Range (4w REAR)	5E-05 Ω	-5e-05	5e-05	-0.0000500 Ω	FAIL
20 kΩ Range (4w REAR)	5E-05 Ω	-5e-05	5e-05	-0.0010000 Ω	FAIL
200 kΩ Range (4w REAR)	5E-05 Ω	-5e-05	5e-05	0.0010000 Ω	FAIL
OHM ZERO 2-wire REAR	Maximum specification	Low Limit	Hi limit	DUT Measured	Result
20 Ω Range (2w REAR)	0.5 Ω	-0.5	0.5	0.0035249 Ω	PASS
200 Ω Range (2w REAR)	0.5 Ω	-0.5	0.5	0.0044580 Ω	PASS
2 kΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	0.0044100 Ω	PASS
20 kΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	0.0131000 Ω	PASS

200 kΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	0.1120000 Ω	PASS
2 MΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	0.6500000 Ω	FAIL
20 MΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	0.6000000 Ω	FAIL
200 MΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	0.0000000 Ω	PASS
1 GΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	0.0000000 Ω	PASS

Procedure for all test points in the AC performance verification for SYNCronous mode. This is highest AC accuracy test. AC-measurements does not suffer from TEMF offsets, test connection can be made using shielded leads terminated with dual banana plugs. MFC main AC output is used as reference source

ACV SYNC Test	Measured Value	Source uncertainty	Low Limit	Hi limit	Measured deviation	24h spec	Result, % spec
0.02 V AC+DC @ 10 Hz	0.01995713	0.0400 %	0.0199055	0.0200945	-0.2143 %	0.4325 %	PASS , 49.35 % of 4343 μ V/V
0.02 V AC+DC @ 20 Hz	0.01989798	0.0280 %	0.0199079	0.0200921	-0.5101 %	0.4325 %	FAIL 117.70 %
0.02 V AC+DC @ 50 Hz	0.01985113	0.0270 %	0.0199081	0.0200919	-0.7443 %	0.4325 %	FAIL 171.77 %
0.02 V AC+DC @ 60 Hz	0.01985005	0.0270 %	0.0199081	0.0200919	-0.7497 %	0.4325 %	FAIL 173.02 %
0.02 V AC+DC @ 100 Hz	0.01983644	0.0270 %	0.0199081	0.0200919	-0.8178 %	0.4325 %	FAIL 188.72 %
0.02 V AC+DC @ 1.0 kHz	0.01972475	0.0270 %	0.0199081	0.0200919	-1.3763 %	0.4325 %	FAIL 317.59 %
0.02 V AC+DC @ 6.25 kHz	0.01968122	0.0270 %	0.0199081	0.0200919	-1.5939 %	0.4325 %	FAIL 367.82 %
0.02 V AC+DC @ 10.0 kHz	0.01966327	0.0270 %	0.0199081	0.0200919	-1.6837 %	0.4325 %	FAIL 388.53 %
0.02 V AC+DC @ 20.0 kHz	0.01964383	0.0270 %	0.0199081	0.0200919	-1.7809 %	0.4325 %	FAIL 410.96 %
0.02 V AC+DC @ 50.0 kHz	0.01960225	0.0370 %	0.0199061	0.0200939	-1.9887 %	0.4325 %	FAIL 458.15 %
0.02 V AC+DC @ 100.0 kHz	0.01958534	0.0650 %	0.0199205	0.0200795	-2.0733 %	0.3325 %	FAIL 611.97 %
0.02 V AC+DC @ 200.0 kHz	0.01953059	0.0800 %	0.0198275	0.0201725	-2.3470 %	0.7825 %	FAIL 298.39 %
0.02 V AC+DC @ 300.0 kHz	0.01947289	0.0800 %	0.0198275	0.0201725	-2.6356 %	0.7825 %	FAIL 335.06 %
0.02 V AC+DC @ 500.0 kHz	0.01968344	0.2100 %	0.019518	0.020482	-1.5828 %	2.2000 %	PASS , 71.62 % of 22100 μ V/V
0.02 V AC+DC @ 1.0 MHz	0.02020767	0.6500 %	0.01943	0.02057	1.0384 %	2.2000 %	PASS , 45.26 % of 22940 μ V/V
0.2 V AC+DC @ 10 Hz	0.20011267	0.0260 %	0.199418	0.200582	0.0563 %	0.2650 %	PASS , 21.16 % of 2663 μ V/V
0.2 V AC+DC @ 20 Hz	0.2001079	0.0115 %	0.199447	0.200553	0.0539 %	0.2650 %	PASS , 20.34 % of 2652 μ V/V
0.2 V AC+DC @ 50 Hz	0.20011071	0.0105 %	0.199899	0.200101	0.0554 %	0.0400 %	FAIL 133.93 %
0.2 V AC+DC @ 60 Hz	0.20011033	0.0105 %	0.199899	0.200101	0.0552 %	0.0400 %	FAIL 133.47 %
0.2 V AC+DC @ 100 Hz	0.20010703	0.0105 %	0.199899	0.200101	0.0535 %	0.0400 %	FAIL 129.48 %
0.2 V AC+DC @ 1.0 kHz	0.20010442	0.0105 %	0.199899	0.200101	0.0522 %	0.0400 %	FAIL 126.33 %
0.2 V AC+DC @ 6.25 kHz	0.20010229	0.0105 %	0.199889	0.200111	0.0511 %	0.0450 %	FAIL 110.74 %
0.2 V AC+DC @ 10.0 kHz	0.2001072	0.0105 %	0.199889	0.200111	0.0536 %	0.0450 %	FAIL 116.05 %
0.2 V AC+DC @ 20.0 kHz	0.2001298	0.0105 %	0.199889	0.200111	0.0649 %	0.0450 %	FAIL 140.52 %
0.2 V AC+DC @ 50.0 kHz	0.20007743	0.0205 %	0.199819	0.200181	0.0387 %	0.0700 %	PASS , 53.10 % of 729 μ V/V
0.2 V AC+DC @ 100.0 kHz	0.19986164	0.0485 %	0.199273	0.200727	-0.0692 %	0.3150 %	PASS , 21.71 % of 3187 μ V/V
0.2 V AC+DC @ 200.0 kHz	0.19925448	0.0800 %	0.19579	0.20421	-0.3728 %	2.0250 %	PASS , 18.39 % of 20266 μ V/V

0.2 V AC+DC @ 300.0 kHz	0.19880776	0.0800 %	0.19579	0.20421	-0.5961 %	2.0250 %	PASS , 29.42 % of 20266 μ V/V
0.2 V AC+DC @ 500.0 kHz	0.19900351	0.1200 %	0.19536	0.20464	-0.4982 %	2.2000 %	PASS , 22.61 % of 22033 μ V/V
0.2 V AC+DC @ 1.0 MHz	0.2005263	0.2600 %	0.19508	0.20492	0.2631 %	2.2000 %	PASS , 11.88 % of 22153 μ V/V
2.0 V AC+DC @ 10 Hz	2.000578	0.0220 %	1.99426	2.00574	0.0289 %	0.2650 %	PASS , 10.87 % of 2659 μ V/V
2.0 V AC+DC @ 20 Hz	2.0005731	0.0083 %	1.994535	2.005465	0.0287 %	0.2650 %	PASS , 10.81 % of 2651 μ V/V
2.0 V AC+DC @ 50 Hz	2.0005892	0.0041 %	1.999118	2.000882	0.0295 %	0.0400 %	PASS , 73.28 % of 402 μ V/V
2.0 V AC+DC @ 60 Hz	2.0005882	0.0041 %	1.999118	2.000882	0.0294 %	0.0400 %	PASS , 73.16 % of 402 μ V/V
2.0 V AC+DC @ 100 Hz	2.0005612	0.0041 %	1.999118	2.000882	0.0281 %	0.0400 %	PASS , 69.80 % of 402 μ V/V
2.0 V AC+DC @ 1.0 kHz	2.0004384	0.0041 %	1.999118	2.000882	0.0219 %	0.0400 %	PASS , 54.53 % of 402 μ V/V
2.0 V AC+DC @ 6.25 kHz	2.0005207	0.0041 %	1.999018	2.000982	0.0260 %	0.0450 %	PASS , 57.63 % of 452 μ V/V
2.0 V AC+DC @ 10.0 kHz	2.0005305	0.0041 %	1.999018	2.000982	0.0265 %	0.0450 %	PASS , 58.71 % of 452 μ V/V
2.0 V AC+DC @ 20.0 kHz	2.000502	0.0041 %	1.999018	2.000982	0.0251 %	0.0450 %	PASS , 55.56 % of 452 μ V/V
2.0 V AC+DC @ 50.0 kHz	1.9999291	0.0070 %	1.99846	2.00154	-0.0035 %	0.0700 %	PASS , 5.04 % of 703 μ V/V
2.0 V AC+DC @ 100.0 kHz	1.9976773	0.0115 %	1.99347	2.00653	-0.1161 %	0.3150 %	PASS , 36.84 % of 3152 μ V/V
2.0 V AC+DC @ 200.0 kHz	1.9920368	0.0340 %	1.95882	2.04118	-0.3982 %	2.0250 %	PASS , 19.66 % of 20253 μ V/V
2.0 V AC+DC @ 300.0 kHz	1.988694	0.0340 %	1.95882	2.04118	-0.5653 %	2.0250 %	PASS , 27.91 % of 20253 μ V/V
2.0 V AC+DC @ 500.0 kHz	1.987149	0.0900 %	1.9542	2.0458	-0.6425 %	2.2000 %	PASS , 29.18 % of 22018 μ V/V
2.0 V AC+DC @ 1.0 MHz	1.9909078	0.1500 %	1.953	2.047	-0.4546 %	2.2000 %	PASS , 20.62 % of 22051 μ V/V
20 V AC+DC @ 10 Hz	20.003059	0.0220 %	19.9156	20.0844	0.0153 %	0.4000 %	PASS , 3.82 % of 4006 μ V/V
20 V AC+DC @ 20 Hz	20.00295	0.0083 %	19.91835	20.08165	0.0147 %	0.4000 %	PASS , 3.69 % of 4001 μ V/V
20 V AC+DC @ 50 Hz	20.003218	0.0040 %	19.96321	20.03679	0.0161 %	0.1800 %	PASS , 8.94 % of 1800 μ V/V
20 V AC+DC @ 60 Hz	20.003116	0.0040 %	19.96321	20.03679	0.0156 %	0.1800 %	PASS , 8.65 % of 1800 μ V/V
20 V AC+DC @ 100 Hz	20.003206	0.0040 %	19.96321	20.03679	0.0160 %	0.1800 %	PASS , 8.90 % of 1800 μ V/V
20 V AC+DC @ 1.0 kHz	20.002733	0.0040 %	19.96321	20.03679	0.0137 %	0.1800 %	PASS , 7.59 % of 1800 μ V/V
20 V AC+DC @ 6.25 kHz	19.997746	0.0040 %	19.95921	20.04079	-0.0113 %	0.2000 %	PASS , 5.63 % of 2000 μ V/V
20 V AC+DC @ 10.0 kHz	19.996118	0.0040 %	19.95921	20.04079	-0.0194 %	0.2000 %	PASS , 9.70 % of 2000 μ V/V
20 V AC+DC @ 20.0 kHz	19.994382	0.0040 %	19.95921	20.04079	-0.0281 %	0.2000 %	PASS , 14.04 % of 2000 μ V/V
20 V AC+DC @ 50.0 kHz	19.993647	0.0070 %	19.9546	20.0454	-0.0318 %	0.2200 %	PASS , 14.43 % of 2201 μ V/V
20 V AC+DC @ 100.0 kHz	19.98318	0.0100 %	19.908	20.092	-0.0841 %	0.4500 %	PASS , 18.68 % of 4501 μ V/V
20 V AC+DC @ 200.0 kHz	19.958467	0.0280 %	19.1444	20.8556	-0.2077 %	4.2500 %	PASS , 4.89 % of 42501 μ V/V
20 V AC+DC @ 300.0 kHz	19.963372	0.0280 %	19.1444	20.8556	-0.1831 %	4.2500 %	PASS , 4.31 % of 42501 μ V/V
20 V AC+DC @ 500.0 kHz	20.032953	0.0900 %	18.782	21.218	0.1648 %	6.0000 %	PASS , 2.75 % of 60007 μ V/V
20 V AC+DC @ 1.0 MHz	20.454513	0.1400 %	18.772	21.228	2.2726 %	6.0000 %	PASS , 37.87 % of 60016 μ V/V
200.0 V AC+DC @ 10 Hz	200.05275	0.0220 %	199.426	200.574	0.0264 %	0.2650 %	PASS , 9.92 % of 2659 μ V/V

200.0 V AC+DC @ 20 Hz	200.05269	0.0083 %	199.4535	200.5465	0.0263 %	0.2650 %	PASS , 9.94 % of 2651 μ V/V
200.0 V AC+DC @ 50 Hz	200.05396	0.0048 %	199.9004	200.0996	0.0270 %	0.0450 %	PASS , 59.62 % of 453 μ V/V
200.0 V AC+DC @ 60 Hz	200.05425	0.0048 %	199.9004	200.0996	0.0271 %	0.0450 %	PASS , 59.94 % of 453 μ V/V
200.0 V AC+DC @ 100 Hz	200.05189	0.0048 %	199.9004	200.0996	0.0259 %	0.0450 %	PASS , 57.33 % of 453 μ V/V
200.0 V AC+DC @ 1.0 kHz	200.04643	0.0048 %	199.9004	200.0996	0.0232 %	0.0450 %	PASS , 51.30 % of 453 μ V/V
200.0 V AC+DC @ 6.25 kHz	200.00163	0.0048 %	199.8604	200.1396	0.0008 %	0.0650 %	PASS , 1.25 % of 652 μ V/V
200.0 V AC+DC @ 10.0 kHz	199.99055	0.0048 %	199.8604	200.1396	-0.0047 %	0.0650 %	PASS , 7.25 % of 652 μ V/V
200.0 V AC+DC @ 20.0 kHz	199.96936	0.0048 %	199.8604	200.1396	-0.0153 %	0.0650 %	PASS , 23.51 % of 652 μ V/V
200.0 V AC+DC @ 50.0 kHz	199.92333	0.0075 %	199.815	200.185	-0.0383 %	0.0850 %	PASS , 44.93 % of 853 μ V/V
200.0 V AC+DC @ 100.0 kHz	199.75304	0.0133 %	199.3435	200.6565	-0.1235 %	0.3150 %	PASS , 39.17 % of 3153 μ V/V
700.0 V AC+DC @ 50 Hz	700.0848	0.0079 %	699.445	700.555	0.0121 %	0.0714 %	PASS , 16.86 % of 719 μ V/V
700.0 V AC+DC @ 60 Hz	700.0987	0.0079 %	699.445	700.555	0.0141 %	0.0714 %	PASS , 19.62 % of 719 μ V/V
700.0 V AC+DC @ 100 Hz	700.1003	0.0079 %	699.445	700.555	0.0143 %	0.0714 %	PASS , 19.94 % of 719 μ V/V
700.0 V AC+DC @ 1.0 kHz	700.077	0.0079 %	699.445	700.555	0.0110 %	0.0714 %	PASS , 15.31 % of 719 μ V/V
700.0 V AC+DC @ 6.25 kHz	699.9391	0.0111 %	699.2127	700.7873	-0.0087 %	0.1014 %	PASS , 8.53 % of 1020 μ V/V
700.0 V AC+DC @ 10.0 kHz	699.7333	0.0111 %	699.2127	700.7873	-0.0381 %	0.1014 %	PASS , 37.34 % of 1020 μ V/V
700.0 V AC+DC @ 20.0 kHz	699.252	0.0111 %	699.2127	700.7873	-0.1069 %	0.1014 %	FAIL 104.73 %

Procedure for all test points that verify Gain of the DC current DCI function. Both +/-FS points are tested.
 2-wire connection at LO and DCI is used between DMM and MFC.
 DCI gain range points verify gain of the DC current function, using corrected 24-hour MFC output.

DCI Test	DUT measured	Reference uncertainty	Low Limit	Hi limit	Deviation from reference	24h spec	Result
Zero μ ADC	-7.3600 nA						INFO
1 μ ADC	0.99511 μA	0.162 %	9.971306E-07	1.002869E-06	-0.4890 %	1250 μ A/A	FAIL 239.04 %
2 μ ADC	1.99524 μA	0.082 %	1.997057E-06	2.002943E-06	-2380.0 μ A/A	650 μ A/A	FAIL 227.23 %
-1 μ ADC	-1.00503 μA	0.162 %	-1.002869E-06	-9.971306E-07	0.5030 %	1250 μ A/A	FAIL 245.88 %
-2 μ ADC	-2.00544 μA	0.082 %	-2.002943E-06	-1.997057E-06	2720.0 μ A/A	650 μ A/A	FAIL 259.69 %
Zero 00 μ ADC	-4.9100 nA						INFO
10 μ ADC	9.99658 μA	182.0 μ A/A	9.99648E-06	1.000352E-05	-342.0 μ A/A	170 μ A/A	FAIL 137.34 %
20 μ ADC	19.99847 μA	102.0 μ A/A	1.999576E-05	2.000424E-05	-76.5 μ A/A	110 μ A/A	PASS , 51.00 % of 150 μ A/A
-10 μ ADC	-10.00703 μA	182.0 μ A/A	-1.000352E-05	-9.99648E-06	703.0 μ A/A	170 μ A/A	FAIL 282.30 %
20 μ ADC	-20.00896 μA	102.0 μ A/A	-2.000424E-05	-1.999576E-05	448.0 μ A/A	110 μ A/A	FAIL 298.65 %
Zero 000 μ ADC	-5.5200 nA						INFO
100 μ ADC	100.01201 μA	38.0 μ A/A	9.999E-05	0.00010001	120.1 μ A/A	62 μ A/A	FAIL 165.16 %
200 μ ADC	200.02935 μA	30.0 μ A/A	0.0001999828	0.0002000172	146.7 μ A/A	56 μ A/A	FAIL 230.99 %
-100 μ ADC	-100.02330 μA	38.0 μ A/A	-0.00010001	-9.999E-05	233.0 μ A/A	62 μ A/A	FAIL 320.41 %
-200 μ ADC	-200.04083 μA	30.0 μ A/A	-0.0002000172	-0.0001999828	204.2 μ A/A	56 μ A/A	FAIL 321.35 %
Zero mADC	-15.6000 nA						INFO
1.0 mADC	1.000121 mA	26.0 μ A/A	0.000999914	0.001000086	120.8 μ A/A	60 μ A/A	FAIL 184.73 %
2.0 mADC	2.000282 mA	24.0 μ A/A	0.001999842	0.002000158	140.8 μ A/A	55 μ A/A	FAIL 234.63 %
-1.0 mADC	-1.000220 mA	26.0 μ A/A	-0.001000086	-0.000999914	219.8 μ A/A	60 μ A/A	FAIL 336.13 %
-2.0 mADC	-2.000396 mA	24.0 μ A/A	-0.002000158	-0.001999842	198.2 μ A/A	55 μ A/A	FAIL 330.20 %
Zero 00 mADC	-161.0000 nA						INFO
10 mADC	9.999635 mA	26.0 μ A/A	0.00999914	0.01000086	-36.5 μ A/A	60 μ A/A	PASS , 55.82 % of 65 μ A/A
20 mADC	20.000441 mA	24.0 μ A/A	0.01999842	0.02000158	22.0 μ A/A	55 μ A/A	PASS , 36.74 % of 60 μ A/A
-10 mADC	-10.002138 mA	26.0 μ A/A	-0.01000086	-0.00999914	213.8 μ A/A	60 μ A/A	FAIL 326.96 %
-20 mADC	-20.003041 mA	24.0 μ A/A	-0.02000158	-0.01999842	152.1 μ A/A	55 μ A/A	FAIL 253.38 %
Zero 000 mADC	-1.61000 μA						INFO

100 mADC	99.99584 mA	27.5 μ A/A	0.09998875	0.1000112	-41.6 μ A/A	85 μ A/A	PASS , 46.56 % of 89 μ A/A
200 mADC	199.99511 mA	26.2 μ A/A	0.1999788	0.2000212	-24.5 μ A/A	80 μ A/A	PASS , 29.04 % of 84 μ A/A
-100 mADC	-100.00233 mA	27.5 μ A/A	-0.1000113	-0.09998875	23.3 μ A/A	85 μ A/A	PASS , 26.08 % of 89 μ A/A
-200 mADC	-200.00161 mA	26.2 μ A/A	-0.2000213	-0.1999787	8.1 μ A/A	80 μ A/A	PASS , 9.56 % of 84 μ A/A
Zero ADC	-18.10000 μA						INFO
2 ADC	1.9993737 A	43.0 μ A/A	1.999204	2.000796	-313.1 μ A/A	355 μ A/A	PASS , 87.57 % of 358 μ A/A
-2 ADC	-1.9994032 A	43.0 μ A/A	-2.000796	-1.999204	-298.4 μ A/A	355 μ A/A	PASS , 83.45 % of 358 μ A/A
-1 ADC	-1.0000027 A	46.0 μ A/A	-1.000406	-0.999594	2.7 μ A/A	360 μ A/A	PASS , 0.74 % of 363 μ A/A
1 ADC	0.9999691 A	46.0 μ A/A	0.999594	1.000406	-30.9 μ A/A	360 μ A/A	PASS , 8.51 % of 363 μ A/A

Procedure for all test points that verify Gain of the AC Current ACI function. Three frequency band points are tested, 50 Hz, 60 Hz and 1 kHz. 2-wire connection at LO and DCI is used between DMM and MFC.

ACI Test	Measured Value	Reference uncertainty	Low Limit	Hi limit	Measured deviation	24h spec	Result, % spec
50 μ A AC @ 50 Hz	5.00824E-05	0.0165 %	4.98017275e-05	5.01982725e-05	0.1648 %	0.380 %	PASS , 21.66 % of 7607 μ A/A
100 μ A AC @ 50 Hz	0.0001000425	0.0165 %	9.9618455e-05	0.000100381545	0.0425 %	0.365 %	PASS , 5.82 % of 7307 μ A/A
200 μ A AC @ 50 Hz	0.0001999682	0.0165 %	0.00019925191	0.00020074809	-0.0159 %	0.357 %	PASS , 2.22 % of 7158 μ A/A
1.0 mA AC @ 50 Hz	0.0009997527	0.0138 %	0.00099671182	0.00100328818	-0.0247 %	0.315 %	PASS , 3.92 % of 6306 μ A/A
2.0 mA AC @ 50 Hz	0.002000026	0.0138 %	0.00199357364	0.00200642636	0.0013 %	0.307 %	PASS , 0.21 % of 6156 μ A/A
10 mA AC @ 50 Hz	0.009997224	0.0138 %	0.0099671182	0.0100328818	-0.0278 %	0.315 %	PASS , 4.40 % of 6306 μ A/A
20 mA AC @ 50 Hz	0.01999972	0.0138 %	0.0199357364	0.0200642636	-0.0014 %	0.308 %	PASS , 0.23 % of 6156 μ A/A
100 mA AC @ 50 Hz	0.1000211	0.0134 %	0.099671636	0.100328364	0.0211 %	0.315 %	PASS , 3.35 % of 6306 μ A/A
200 mA AC @ 50 Hz	0.2000948	0.0134 %	0.199358272	0.200641728	0.0474 %	0.307 %	PASS , 7.70 % of 6156 μ A/A
1.0 AAC @ 50 Hz	1.001164	0.0308 %	0.99604182	1.00395818	0.1164 %	0.365 %	PASS , 15.89 % of 7326 μ A/A
2.0 AAC @ 50 Hz	2.003056	0.0308 %	1.99223364	2.00776636	0.1528 %	0.358 %	PASS , 21.29 % of 7177 μ A/A
50 μ A AC @ 60 Hz	5.00678E-05	0.0165 %	4.98767275e-05	5.01232725e-05	0.1356 %	0.230 %	PASS , 29.40 % of 4612 μ A/A
100 μ A AC @ 60 Hz	0.0001000339	0.0165 %	9.9768455e-05	0.000100231545	0.0339 %	0.215 %	PASS , 7.86 % of 4313 μ A/A
200 μ A AC @ 60 Hz	0.0001999809	0.0165 %	0.00019955191	0.00020044809	-0.0096 %	0.208 %	PASS , 2.29 % of 4163 μ A/A
1.0 mA AC @ 60 Hz	0.0009998227	0.0138 %	0.00099821182	0.00100178818	-0.0177 %	0.165 %	PASS , 5.35 % of 3312 μ A/A
2.0 mA AC @ 60 Hz	0.002000156	0.0138 %	0.00199657364	0.00200342636	0.0078 %	0.157 %	PASS , 2.47 % of 3162 μ A/A
10 mA AC @ 60 Hz	0.009998202	0.0138 %	0.0099821182	0.0100178818	-0.0180 %	0.165 %	PASS , 5.43 % of 3312 μ A/A
20 mA AC @ 60 Hz	0.02000117	0.0138 %	0.0199657364	0.0200342636	0.0058 %	0.158 %	PASS , 1.85 % of 3162 μ A/A
100 mA AC @ 60 Hz	0.1000282	0.0134 %	0.099821636	0.100178364	0.0282 %	0.165 %	PASS , 8.53 % of 3311 μ A/A
200 mA AC @ 60 Hz	0.200111	0.0134 %	0.199658272	0.200341728	0.0555 %	0.157 %	PASS , 17.56 % of 3161 μ A/A
1.0 AAC @ 60 Hz	1.001248	0.0308 %	0.99754182	1.00245818	0.1248 %	0.215 %	PASS , 28.73 % of 4344 μ A/A
2.0 AAC @ 60 Hz	2.003223	0.0308 %	1.99523364	2.00476636	0.1612 %	0.208 %	PASS , 38.41 % of 4196 μ A/A
50 μ A AC @ 1.0 kHz	5.00817E-05	0.0165 %	4.97267275e-05	5.02732725e-05	0.1634 %	0.530 %	PASS , 15.41 % of 10605 μ A/A
100 μ A AC @ 1.0 kHz	0.0001000459	0.0165 %	9.9468455e-05	0.000100531545	0.0459 %	0.515 %	PASS , 4.45 % of 10305 μ A/A

200 μ A AC @ 1.0 kHz	0.0001999923	0.0165 %	0.00019895191	0.00020104809	-0.0038 %	0.507 %	PASS , 0.38 % of 10155 μ A/A
1.0 mA AC @ 1.0 kHz	0.0009999184	0.0138 %	0.00099851182	0.00100148818	-0.0082 %	0.135 %	PASS , 3.01 % of 2714 μ A/A
2.0 mA AC @ 1.0 kHz	0.002000357	0.0138 %	0.00199717364	0.00200282636	0.0179 %	0.127 %	PASS , 6.97 % of 2565 μ A/A
10 mA AC @ 1.0 kHz	0.009999472	0.0138 %	0.0099851182	0.0100148818	-0.0053 %	0.135 %	PASS , 1.95 % of 2714 μ A/A
20 mA AC @ 1.0 kHz	0.02000431	0.0138 %	0.0199717364	0.0200282636	0.0215 %	0.128 %	PASS , 8.40 % of 2565 μ A/A
100 mA AC @ 1.0 kHz	0.1000449	0.0134 %	0.099821636	0.100178364	0.0449 %	0.165 %	PASS , 13.56 % of 3311 μ A/A
200 mA AC @ 1.0 kHz	0.2001405	0.0134 %	0.199658272	0.200341728	0.0703 %	0.157 %	PASS , 22.23 % of 3161 μ A/A
1.0 A AC @ 1.0 kHz	1.001378	0.0308 %	0.99504182	1.00495818	0.1378 %	0.465 %	PASS , 14.78 % of 9320 μ A/A
2.0 A AC @ 1.0 kHz	2.003503	0.0308 %	1.99023364	2.00976636	0.1752 %	0.457 %	PASS , 19.10 % of 9171 μ A/A
10 μ A AC @ 10.0 kHz	1.01025E-05	1400	9.936e-06	1.0064e-05	1.0250 %	5000 μ A/A	PASS , 98.70 % of 10385 μ A/A
50 μ A AC @ 10.0 kHz	5.01062E-05	0.1400 %	4.974e-05	5.026e-05	0.2124 %	0.380 %	PASS , 26.22 % of 8099 μ A/A
100 μ A AC @ 10.0 kHz	0.000100108	0.1400 %	9.9495e-05	0.000100505	0.1080 %	0.365 %	PASS , 13.81 % of 7819 μ A/A
200 μ A AC @ 10.0 kHz	0.0002001068	0.1400 %	0.000199005	0.000200995	0.0534 %	0.357 %	PASS , 6.95 % of 7679 μ A/A
1.0 mA AC @ 10.0 kHz	0.001000148	0.1400 %	0.00099595	0.00100405	0.0148 %	0.265 %	PASS , 2.47 % of 5994 μ A/A
2.0 mA AC @ 10.0 kHz	0.002000581	0.1400 %	0.00199205	0.00200795	0.0290 %	0.257 %	PASS , 4.95 % of 5862 μ A/A
10 mA AC @ 10.0 kHz	0.01000033	0.1300 %	0.0099605	0.0100395	0.0033 %	0.265 %	PASS , 0.56 % of 5903 μ A/A
20 mA AC @ 10.0 kHz	0.02000356	0.1300 %	0.0199225	0.0200775	0.0178 %	0.258 %	PASS , 3.08 % of 5769 μ A/A
100 mA AC @ 10.0 kHz	0.1000874	0.1100 %	0.099375	0.100625	0.0874 %	0.515 %	PASS , 8.29 % of 10532 μ A/A
200 mA AC @ 10.0 kHz	0.200199	0.1100 %	0.198765	0.201235	0.0995 %	0.507 %	PASS , 9.58 % of 10386 μ A/A
1.0 A AC @ 10.0 kHz	0.9991135	0.6100 %	0.97875	1.02125	-0.0887 %	1.515 %	PASS , 2.71 % of 32664 μ A/A
2.0 A AC @ 10.0 kHz	1.995878	0.6100 %	1.95765	2.04235	-0.2061 %	1.507 %	PASS , 6.34 % of 32525 μ A/A

Test date

28 August 2024 04:28

Lab temperature maintained +23°C \pm 2°C

Note 1: High voltages (>100V) data was captured after initial 5 minute warm-up for DMM divider

Note 2: High current (>100mA) data was captured after initial 10 minute warm-up for DMM shunts

This is NOT an accredited calibration, data is presented for evaluation reference only

