

Manufacturer	KEITHLEY INSTRUMENTS	Calibration date	October 06 2024
Model Number	Model 2002	Ambient Temperature	23.65 °C
Serial	0727052	Relative Humidity	45.60 %
ID Number	Calibration test	Pressure	1007.89 hPa
Notes	Test as returned, adjusted, Hulk-1 calibrator	Test type	Front inputs, Fluke cable

This report provides calibration data solely for performance evaluation purposes. **It is important to note that this report is not accredited documentation and therefore cannot be used as such. For ANSI Z540-1 or ISO 17025 accredited calibration, please contact your preferred commercial calibration facility or instrument manufacturer.**

DMM is tested against the strict 24-hour specifications with 95% confidence.

Prior to the calibration of the DMM, the calibrator and reference standards were checked and recalibrated following the instrument's recommended guidelines.

This DMM was adjusted according to the manufacturer's manual P/N 2002-905-01, Chapter 2.10 procedures before calibration.

This calibration report shall not be reproduced, except in full. The documented results pertain solely to the equipment under test at the time of calibration.

Reference standard	Mfg	Model	Options	Serial / Unc	CEID	Calibration date	Due date
DCCB	MIL	6010B		REDACTED	XRB1	PROCESS	PROCESS
BVDB	MIL	6000A		REDACTED	XRB2	PROCESS	PROCESS
MFC	Fluke	5720A	HLK	H1	XHC1	08/27/2024	11/27/2024
Amplifier	Fluke	5725A		5930005	XHB1	02/07/2022	08/07/2022
DC STD	xDevs.com	792X[2]	9.9999763 VDC	±0.8 ppm	XD01	XBANK DATA	XBANK DATA
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	SELF_CAL	SELF_CAL
ARB	Keysight	33522B			XG05	PROCESS	PROCESS

MFC last calibrated	40.0 days ago	MFC since DCV ZERO	2.0 days ago
MFC since WBFLAT	113.0 days ago	MFC since WBGAIN	115.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2024-08-27 00:00:00
MFC Calibrate date Zero	2024-10-04 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	398.17751
CAL CONST 22V range negative zero	398.17701	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	9999.80467918	CAL CONST 10KOHM standard resistance	9998.75141004
CAL CONST, Zero calibration temperature	25.2999992371	CAL CONST, All calibration temp	25.2999992371
Booster type	VB5725,IB5725	Current output posts	AUX
Calibrate date 5725A AMP	2024-08-27 00:00:00	Calibrated days ago	Debug
CAL CONST, Amp ACAL temperature	25.3	CAL CONST, Amp CalCheck temperature	25.3

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 2002,0727052,A06 /A02	Test date start	06 October 2024 21:27
Test specification interval	24 hour DUT spec	Line frequency	120V 60 Hz
Next calibration date	2025,10,06	Last calibration date	2024,10,06
DUT Δ temperature to cal	0.10 °C	Last calibration temperature	23.75 °C

Service information

Last calibration temperature

23.75 °C

All CAL values

9.991349E-01,-4.565441E-05,9.996609E+00,-1.467810E-04,9.999120E-01,-7.949996E-06,1.000437E+01,2.146733E-05,9.999678E+01,4.966007E+02,3.301512E-03,6.795450E-03,1.986744E-03,3.323689E-03,6.835745E-03,9.150000E+01,9.800000E+01,-4.542188E-05,-4.426853E-05,-4.392739E-05,-4.399548E-05,-4.384957E-05,-8.142472E-06,-8.754350E-08,-4.706019E-07,-1.140863E-06,-1.556329E-07,-7.911300E-07,-1.048368E-05,-1.069976E-07,-1.195038E-07,-6.025188E-07,2.556814E-08,-6.136355E-07,1.423282E+00,1.423281E+00,6.880054E-06,1.423273E+00,1.423265E+00,-5.630550E-07,1.423282E+00,1.423282E+00,7.575063E-05,1.423342E+00,1.423265E+00,-7.808512E-06,1.779192E+00,1.779189E+00,9.465289E-04,1.779943E+00,1.778985E+00,-7.262407E-06,1.779194E+00,1.779191E+00,7.167198E-03,1.786164E+00,1.778986E+00,1.132076E+00,2.830104E-01,2.830129E+00,1.132111E-01,1.415100E+00,7.27101,2.666342E-01,1.013310E+00,1.013370E+00,2.436653E+00,1.443546E+00,1.013336E+00,2.436619E+00,1.425306E+00,1.266620E+00,3.045822E+00,1.781681E+00,9.500106E-01,2.729213E+00,1.779401E+00,1.415564E+00,1.414838E+00,1.416896E+00,1.432430E+00,1.414480E+00,2.000000E+00,2.000000E+00,2.000000E+01,9.999827E+05,1.899892E+05,1.899928E+04,1.899862E+03,1.899896E+02,1.900017E+01,2.0004,2.000000E-03,2.000000E-02,2.000000E-01,2.000000E+00,6.131545E+01,1.998313E+00,1.998720E+00,9.200000E+01,4.019569E-01,1.997516E+00,9.100000E+01,1.010000E+02,1.497301E+00,1.497870E+00,1.998564E+00,9.600000E+01,1.230000E+02,5.457980E-03,5.660583E-01,1.415101E-01,-1.415134E+00,-1.165878E-06,-7.240610E-07,-9.971639E-06,-1.459061E-07,-5.627807E-08,-7.031249E-07,-9.949357E-08,-6.453186E-07,6.418725E-06,-4.780138E-07,7.157701E-05,-7.244354E-06,8.909673E-04,-6.486568E-06,6.759904E-03,1.998443E+00,1.999281E+00,1.034547E+00,2.001706E+00

Reference

Performance check as returned

DUT Condition

Ambient +23.7C

Test procedure : \$Id: k2002.py | Rev 2977 | 2024/10/04 16:19:32 tin_sl \$

Source procedure : \$Id: f5720b.py | Rev 2977 | 2024/10/04 16:19:32 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	-0.51 μV	1.40 μV	-2.600 μV	2.600 μV	N/A	1.20 μV	PASS
Short 0.0 VDC	-0.50 μV	1.40 μV	-5.400 μV	5.400 μV	N/A	4.00 μV	PASS
Short 00.0 VDC	-0.30 μV	1.40 μV	-81.400 μV	81.400 μV	N/A	80.00 μV	PASS
Short 000.0 VDC	28.00 μV	1.40 μV	-601.400 μV	601.400 μV	N/A	0.60 mV	PASS
Short 0000.0 VDC	0.00 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)	0.020000055	22.5 μV/V	0.01999888	0.02000112	2.7 μV/V	33.5 μV/V	PASS 6.81 %
0.1 VDC (0.20 Range)	0.100000048	9.5 μV/V	0.0999981	0.1000019	4.8 μV/V	9.5 μV/V	PASS 35.80 %
0.2 VDC (0.20 Range)	0.200000035	4.5 μV/V	0.1999978	0.2000022	1.8 μV/V	6.5 μV/V	PASS 22.33 %
-0.02 VDC (0.20 Range)	-0.0200000339	22.5 μV/V	-0.02000112	-0.01999888	17.0 μV/V	33.5 μV/V	PASS 42.00 %
-0.1 VDC (0.20 Range)	-0.100000072	9.5 μV/V	-0.1000019	-0.0999981	7.2 μV/V	9.5 μV/V	PASS 53.89 %
-0.2 VDC (0.20 Range)	-0.200000087	4.5 μV/V	-0.2000022	-0.1999978	4.3 μV/V	6.5 μV/V	PASS 54.77 %
0.2 VDC (2.00 Range)	0.200000098	6.0 μV/V	0.19999796	0.20000204	4.9 μV/V	4.2 μV/V	PASS 66.90 %
1.0 VDC (2.00 Range)	0.99999983	3.2 μV/V	0.999995	1.000005	-0.2 μV/V	1.8 μV/V	PASS 4.63 %
1.9 VDC (2.00 Range)	1.8999986	2.9 μV/V	1.8999917	1.9000083	-0.7 μV/V	1.5 μV/V	PASS 22.22 %

2.0 VDC (2.00 Range)	1.9999984	2.9 $\mu\text{V/V}$	1.9999913	2.0000087	-0.8 $\mu\text{V/V}$	1.5 $\mu\text{V/V}$	PASS 24.68 %
-0.2 VDC (2.00 Range)	-0.20000145	6.0 $\mu\text{V/V}$	-0.20000204	-0.19999796	7.2 $\mu\text{V/V}$	4.2 $\mu\text{V/V}$	PASS 98.99 %
-1.0 VDC (2.00 Range)	-1.000003	3.2 $\mu\text{V/V}$	-1.000005	-0.999995	3.0 $\mu\text{V/V}$	1.8 $\mu\text{V/V}$	PASS 82.53 %
-1.9 VDC (2.00 Range)	-1.9000044	2.9 $\mu\text{V/V}$	-1.9000083	-1.8999917	2.3 $\mu\text{V/V}$	1.5 $\mu\text{V/V}$	PASS 71.84 %
-2.0 VDC (2.00 Range)	-2.0000048	2.9 $\mu\text{V/V}$	-2.0000087	-1.9999913	2.4 $\mu\text{V/V}$	1.5 $\mu\text{V/V}$	PASS 74.36 %
10.0 VDC (20.00 Range)	10.000008	1.9 $\mu\text{V/V}$	9.999967	10.000033	0.8 $\mu\text{V/V}$	1.4 $\mu\text{V/V}$	PASS 34.74 %
19.0 VDC (20.00 Range)	19.000002	1.7 $\mu\text{V/V}$	18.999943	19.000057	0.1 $\mu\text{V/V}$	1.3 $\mu\text{V/V}$	PASS 4.40 %
20.0 VDC (20.00 Range)	20.000001	1.7 $\mu\text{V/V}$	19.99994	20.00006	0.1 $\mu\text{V/V}$	1.3 $\mu\text{V/V}$	PASS 3.50 %
-10.0 VDC (20.00 Range)	-10.000019	1.9 $\mu\text{V/V}$	-10.000033	-9.999967	1.9 $\mu\text{V/V}$	1.4 $\mu\text{V/V}$	PASS 81.78 %
-19.0 VDC (20.00 Range)	-19.000022	1.7 $\mu\text{V/V}$	-19.000057	-18.999943	1.2 $\mu\text{V/V}$	1.3 $\mu\text{V/V}$	PASS 53.82 %
-20.0 VDC (20.00 Range)	-20.00002	1.7 $\mu\text{V/V}$	-20.00006	-19.99994	1.0 $\mu\text{V/V}$	1.3 $\mu\text{V/V}$	PASS 46.26 %
10 VDC (200.00 Range)	10.000045	6.5 $\mu\text{V/V}$	9.999805	10.000195	4.5 $\mu\text{V/V}$	13.0 $\mu\text{V/V}$	PASS 30.96 %
100 VDC (200.00 Range)	100.00014	2.9 $\mu\text{V/V}$	99.99913	100.00087	1.4 $\mu\text{V/V}$	5.8 $\mu\text{V/V}$	PASS 21.74 %
200 VDC (200.00 Range)	200.00001	2.7 $\mu\text{V/V}$	199.99838	200.00162	0.0 $\mu\text{V/V}$	5.4 $\mu\text{V/V}$	PASS 0.58 %
-10 VDC (200.00 Range)	-10.000002	6.5 $\mu\text{V/V}$	-10.000195	-9.999805	0.2 $\mu\text{V/V}$	13.0 $\mu\text{V/V}$	PASS 1.38 %
-100 VDC (200.00 Range)	-100.00028	2.9 $\mu\text{V/V}$	-100.00087	-99.99913	2.8 $\mu\text{V/V}$	5.8 $\mu\text{V/V}$	PASS 42.72 %
-200 VDC (200.00 Range)	-200.00043	2.7 $\mu\text{V/V}$	-200.00162	-199.99838	2.1 $\mu\text{V/V}$	5.4 $\mu\text{V/V}$	PASS 35.45 %
100 VDC (1000.00 Range)	100.0002	7.0 $\mu\text{V/V}$	99.99872	100.00128	2.0 $\mu\text{V/V}$	5.8 $\mu\text{V/V}$	PASS 22.00 %
200 VDC (1000.00 Range)	200.00016	5.0 $\mu\text{V/V}$	199.99792	200.00208	0.8 $\mu\text{V/V}$	5.4 $\mu\text{V/V}$	PASS 10.87 %
1000 VDC (1000.00 Range)	1000.0101	3.4 $\mu\text{V/V}$	999.98152	1000.0185	10.1 $\mu\text{V/V}$	25.1 $\mu\text{V/V}$	PASS 39.91 %
-100 VDC (1000.00 Range)	-100.00028	7.0 $\mu\text{V/V}$	-100.00128	-99.99872	2.8 $\mu\text{V/V}$	5.8 $\mu\text{V/V}$	PASS 30.80 %
-200 VDC (1000.00 Range)	-200.00041	5.0 $\mu\text{V/V}$	-200.00208	-199.99792	2.0 $\mu\text{V/V}$	5.4 $\mu\text{V/V}$	PASS 27.86 %
-1000 VDC (1000.00 Range)	-1000.012	3.4 $\mu\text{V/V}$	-1000.0185	-999.98152	12.0 $\mu\text{V/V}$	25.1 $\mu\text{V/V}$	PASS 47.71 %

4W test procedure for all test points that verify Gain of the OHMF function. 4-wire kelvin connection is used between DMM and MFC.
1G Ω resistance range is tested using the external standard, 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	0.9997948 Ω	0.9997755 Ω	32.0 $\mu\Omega/\Omega$	0.999667808	0.999921792	-19.3 $\mu\Omega/\Omega$	95.0 $\mu\Omega/\Omega$	PASS, 19.25 % of 100.3 $\mu\Omega/\Omega$
1.9 Ω	1.8998107 Ω	1.8997956 Ω	25.0 $\mu\Omega/\Omega$	1.89966371	1.89995769	-7.9 $\mu\Omega/\Omega$	52.4 $\mu\Omega/\Omega$	PASS, 13.80 % of 57.6 $\mu\Omega/\Omega$
10 Ω	10.000502 Ω	10.0004977 Ω	5.0 $\mu\Omega/\Omega$	10.000312	10.000692	-0.4 $\mu\Omega/\Omega$	14.0 $\mu\Omega/\Omega$	PASS, 2.95 % of 14.6 $\mu\Omega/\Omega$
19 Ω	19.000173 Ω	19.0001634 Ω	4.0 $\mu\Omega/\Omega$	18.999912	19.000434	-0.5 $\mu\Omega/\Omega$	9.7 $\mu\Omega/\Omega$	PASS, 4.80 % of 10.5 $\mu\Omega/\Omega$
100 Ω	99.99536 Ω	0.099995 k Ω	1.7 $\mu\Omega/\Omega$	99.99409	99.99663	-4.4 $\mu\Omega/\Omega$	11.0 $\mu\Omega/\Omega$	PASS, 39.17 % of 11.1 $\mu\Omega/\Omega$
190 Ω	189.98955 Ω	0.189989 k Ω	1.7 $\mu\Omega/\Omega$	189.987677	189.991423	-1.8 $\mu\Omega/\Omega$	8.2 $\mu\Omega/\Omega$	PASS, 21.85 % of 8.3 $\mu\Omega/\Omega$
1.0 k Ω	1000.0201 Ω	1.0000213 k Ω	1.7 $\mu\Omega/\Omega$	1000.0153	1000.0249	1.2 $\mu\Omega/\Omega$	3.1 $\mu\Omega/\Omega$	PASS, 35.35 % of 3.5 $\mu\Omega/\Omega$
1.9 k Ω	1899.8622 Ω	1.8998634 k Ω	1.7 $\mu\Omega/\Omega$	1899.85362	1899.87078	0.6 $\mu\Omega/\Omega$	2.8 $\mu\Omega/\Omega$	PASS, 19.36 % of 3.3 $\mu\Omega/\Omega$
10 k Ω	9999.805 Ω	9.9998017 k Ω	1.6 $\mu\Omega/\Omega$	9999.758	9999.852	-0.3 $\mu\Omega/\Omega$	3.1 $\mu\Omega/\Omega$	PASS, 9.46 % of 3.5 $\mu\Omega/\Omega$
19 k Ω	18999.276 Ω	18.9992534 k Ω	1.7 $\mu\Omega/\Omega$	18999.1902	18999.3618	-1.2 $\mu\Omega/\Omega$	2.8 $\mu\Omega/\Omega$	PASS, 36.16 % of 3.3 $\mu\Omega/\Omega$
100 k Ω	99994.85 Ω	99.99541 k Ω	2.0 $\mu\Omega/\Omega$	99994	99995.7	5.6 $\mu\Omega/\Omega$	6.5 $\mu\Omega/\Omega$	PASS, 81.76 % of 6.8 $\mu\Omega/\Omega$
190 k Ω	189989.23 Ω	189.99002 k Ω	2.0 $\mu\Omega/\Omega$	189987.705	189990.755	4.2 $\mu\Omega/\Omega$	6.0 $\mu\Omega/\Omega$	PASS, 65.49 % of 6.3 $\mu\Omega/\Omega$
1.0 M Ω	999982.7 Ω	0.999986 M Ω	2.5 $\mu\Omega/\Omega$	999967.6	999997.8	3.7 $\mu\Omega/\Omega$	12.6 $\mu\Omega/\Omega$	PASS, 28.88 % of 12.8 $\mu\Omega/\Omega$
1.9 M Ω	1899977 Ω	1.899978 M Ω	3.0 $\mu\Omega/\Omega$	1899947.9	1900006.1	0.5 $\mu\Omega/\Omega$	12.3 $\mu\Omega/\Omega$	PASS, 3.67 % of 12.5 $\mu\Omega/\Omega$
10 M Ω	9999075 Ω	9.998867 M Ω	10.0 $\mu\Omega/\Omega$	9998471.06	9999678.94	-20.8 $\mu\Omega/\Omega$	50.4 $\mu\Omega/\Omega$	PASS, 40.46 % of 51.4 $\mu\Omega/\Omega$
19 M Ω	18998645 Ω	18.998048 M Ω	20.0 $\mu\Omega/\Omega$	18997311.1	18999978.9	-31.4 $\mu\Omega/\Omega$	50.2 $\mu\Omega/\Omega$	PASS, 58.12 % of 54.0 $\mu\Omega/\Omega$
100 M Ω	100003300 Ω	100.00278 M Ω	50.0 $\mu\Omega/\Omega$	99983099.3	100023501	-5.2 $\mu\Omega/\Omega$	152.0 $\mu\Omega/\Omega$	PASS, 3.22 % of 160.0 $\mu\Omega/\Omega$

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	-0.0000190 Ω	PASS
200 Ω Range (4w FRONT)	0.0005 Ω	-0.0005	0.0005	-0.0001720 Ω	PASS
2 k Ω Range (4w FRONT)	0.0005 Ω	-0.0005	0.0005	0.0002100 Ω	PASS
20 k Ω Range (4w FRONT)	0.005 Ω	-0.005	0.005	-0.0021000 Ω	PASS
200 k Ω Range (4w FRONT)	0.05 Ω	-0.05	0.05	-0.0015000 Ω	PASS

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	-0.0057729 Ω	PASS
200 Ω Range (2w FRONT)	0.5 Ω	-0.5	0.5	-0.0056030 Ω	PASS
2 kΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	-0.0057300 Ω	PASS
20 kΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	-0.0052000 Ω	PASS
200 kΩ Range (2w FRONT)	0.5 Ω	-0.5	0.5	0.0000000 Ω	PASS
2 MΩ Range (2w FRONT)	5 Ω	-5.0	5.0	0.0500000 Ω	PASS
20 MΩ Range (2w FRONT)	5 Ω	-5.0	5.0	0.1000000 Ω	PASS
200 MΩ Range (2w FRONT)	50 Ω	-50.0	50.0	0.0000000 Ω	PASS
1 GΩ Range (2w FRONT)	50 Ω	-50.0	50.0	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	-0.0000208 Ω	PASS
200 Ω Range (4w REAR)	0.0005 Ω	-0.0005	0.0005	-0.0002700 Ω	PASS
2 kΩ Range (4w REAR)	5E-05 Ω	-5e-05	5e-05	-0.0000400 Ω	PASS
20 kΩ Range (4w REAR)	0.005 Ω	-0.005	0.005	-0.0021000 Ω	PASS
200 kΩ Range (4w REAR)	0.05 Ω	-0.05	0.05	-0.0016000 Ω	PASS
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	-0.0025409 Ω	PASS
200 Ω Range (2w REAR)	0.5 Ω	-0.5	0.5	-0.0065480 Ω	PASS
2 kΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	-0.0072000 Ω	PASS
20 kΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	-0.0510000 Ω	PASS
200 kΩ Range (2w REAR)	0.5 Ω	-0.5	0.5	-0.4950000 Ω	PASS
2 MΩ Range (2w REAR)	5 Ω	-5.0	5.0	-2.6900000 Ω	PASS
20 MΩ Range (2w REAR)	5 Ω	-5.0	5.0	-3.2000000 Ω	PASS
200 MΩ Range (2w REAR)	50 Ω	-50.0	50.0	-2.0000000 Ω	PASS
1 GΩ Range (2w REAR)	50 Ω	-50.0	50.0	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	0.02000191	0.0400 %	0.0199055	0.0200945	0.0096 %	0.4325 %	PASS, 2.20 % of 4343 μV/V
0.02 V AC+DC @ 20 Hz	0.02000184	0.0280 %	0.0199079	0.0200921	0.0092 %	0.4325 %	PASS, 2.12 % of 4334 μV/V
0.02 V AC+DC @ 50 Hz	0.02000128	0.0270 %	0.0199081	0.0200919	0.0064 %	0.4325 %	PASS, 1.48 % of 4333 μV/V
0.02 V AC+DC @ 60 Hz	0.02000058	0.0270 %	0.0199081	0.0200919	0.0029 %	0.4325 %	PASS, 0.67 % of 4333 μV/V
0.02 V AC+DC @ 100 Hz	0.02000081	0.0270 %	0.0199081	0.0200919	0.0041 %	0.4325 %	PASS, 0.93 % of 4333 μV/V
0.02 V AC+DC @ 1.0 kHz	0.02000045	0.0270 %	0.0199081	0.0200919	0.0023 %	0.4325 %	PASS, 0.52 % of 4333 μV/V
0.02 V AC+DC @ 6.25 kHz	0.01999897	0.0270 %	0.0199081	0.0200919	-0.0051 %	0.4325 %	PASS, 1.19 % of 4333 μV/V
0.02 V AC+DC @ 10.0 kHz	0.01999929	0.0270 %	0.0199081	0.0200919	-0.0036 %	0.4325 %	PASS, 0.82 % of 4333 μV/V
0.02 V AC+DC @ 20.0 kHz	0.01999898	0.0270 %	0.0199081	0.0200919	-0.0051 %	0.4325 %	PASS, 1.18 % of 4333 μV/V
0.02 V AC+DC @ 50.0 kHz	0.01999767	0.0370 %	0.0199061	0.0200939	-0.0117 %	0.4325 %	PASS, 2.68 % of 4341 μV/V
0.02 V AC+DC @ 100.0 kHz	0.01998204	0.0650 %	0.0199205	0.0200795	-0.0898 %	0.3325 %	PASS, 26.51 % of 3388 μV/V
0.02 V AC+DC @ 200.0 kHz	0.01993598	0.0800 %	0.0198275	0.0201725	-0.3201 %	0.7825 %	PASS, 40.70 % of 7866 μV/V
0.02 V AC+DC @ 300.0 kHz	0.01991783	0.0800 %	0.0198275	0.0201725	-0.4108 %	0.7825 %	PASS, 52.23 % of 7866 μV/V
0.02 V AC+DC @ 500.0 kHz	0.02002865	0.2100 %	0.0199518	0.020482	0.1432 %	2.2000 %	PASS, 6.48 % of 22100 μV/V
0.02 V AC+DC @ 1.0 MHz	0.0204457	0.6500 %	0.01943	0.02057	2.2285 %	2.2000 %	PASS, 97.14 % of 22940 μV/V
0.2 V AC+DC @ 10 Hz	0.19997826	0.0260 %	0.199418	0.200582	-0.0109 %	0.2650 %	PASS, 4.08 % of 2663 μV/V
0.2 V AC+DC @ 20 Hz	0.19998593	0.0115 %	0.199447	0.200553	-0.0070 %	0.2650 %	PASS, 2.65 % of 2652 μV/V
0.2 V AC+DC @ 50 Hz	0.19999221	0.0105 %	0.199899	0.200101	-0.0039 %	0.0400 %	PASS, 9.42 % of 413 μV/V
0.2 V AC+DC @ 60 Hz	0.19999405	0.0105 %	0.199899	0.200101	-0.0030 %	0.0400 %	PASS, 7.20 % of 413 μV/V
0.2 V AC+DC @ 100 Hz	0.19999243	0.0105 %	0.199899	0.200101	-0.0038 %	0.0400 %	PASS, 9.16 % of 413 μV/V

0.2 V AC+DC @ 1.0 kHz	0.19999588	0.0105 %	0.199899	0.200101	-0.0021 %	0.0400 %	PASS, 4.98 % of 413 µV/V
0.2 V AC+DC @ 6.25 kHz	0.20000396	0.0105 %	0.199889	0.200111	0.0020 %	0.0450 %	PASS, 4.29 % of 462 µV/V
0.2 V AC+DC @ 10.0 kHz	0.20000505	0.0105 %	0.199889	0.200111	0.0025 %	0.0450 %	PASS, 5.47 % of 462 µV/V
0.2 V AC+DC @ 20.0 kHz	0.20000601	0.0105 %	0.199889	0.200111	0.0030 %	0.0450 %	PASS, 6.51 % of 462 µV/V
0.2 V AC+DC @ 50.0 kHz	0.1999856	0.0205 %	0.199819	0.200181	-0.0072 %	0.0700 %	PASS, 9.87 % of 729 µV/V
0.2 V AC+DC @ 100.0 kHz	0.19978887	0.0485 %	0.199273	0.200727	-0.1056 %	0.3150 %	PASS, 33.12 % of 3187 µV/V
0.2 V AC+DC @ 200.0 kHz	0.1992256	0.0800 %	0.19579	0.20421	-0.3872 %	2.0250 %	PASS, 19.11 % of 20266 µV/V
0.2 V AC+DC @ 300.0 kHz	0.19883102	0.0800 %	0.19579	0.20421	-0.5845 %	2.0250 %	PASS, 28.84 % of 20266 µV/V
0.2 V AC+DC @ 500.0 kHz	0.19897184	0.1200 %	0.19536	0.20464	-0.5141 %	2.2000 %	PASS, 23.33 % of 22033 µV/V
0.2 V AC+DC @ 1.0 MHz	0.20031345	0.2600 %	0.19508	0.20492	0.1567 %	2.2000 %	PASS, 7.07 % of 22153 µV/V
2.0 V AC+DC @ 10 Hz	2.0001595	0.0220 %	1.99426	2.00574	0.0080 %	0.2650 %	PASS, 3.00 % of 2659 µV/V
2.0 V AC+DC @ 20 Hz	2.0002363	0.0083 %	1.994535	2.005465	0.0118 %	0.2650 %	PASS, 4.46 % of 2651 µV/V
2.0 V AC+DC @ 50 Hz	2.0003029	0.0041 %	1.999118	2.000882	0.0151 %	0.0400 %	PASS, 37.67 % of 402 µV/V
2.0 V AC+DC @ 60 Hz	2.0002994	0.0041 %	1.999118	2.000882	0.0150 %	0.0400 %	PASS, 37.24 % of 402 µV/V
2.0 V AC+DC @ 100 Hz	2.0002892	0.0041 %	1.999118	2.000882	0.0145 %	0.0400 %	PASS, 35.97 % of 402 µV/V
2.0 V AC+DC @ 1.0 kHz	2.0003658	0.0041 %	1.999118	2.000882	0.0183 %	0.0400 %	PASS, 45.50 % of 402 µV/V
2.0 V AC+DC @ 6.25 kHz	2.0003369	0.0041 %	1.999018	2.000982	0.0168 %	0.0450 %	PASS, 37.29 % of 452 µV/V
2.0 V AC+DC @ 10.0 kHz	2.0003569	0.0041 %	1.999018	2.000982	0.0178 %	0.0450 %	PASS, 39.50 % of 452 µV/V
2.0 V AC+DC @ 20.0 kHz	2.0003418	0.0041 %	1.999018	2.000982	0.0171 %	0.0450 %	PASS, 37.83 % of 452 µV/V
2.0 V AC+DC @ 50.0 kHz	1.9999414	0.0070 %	1.99846	2.00154	-0.0029 %	0.0700 %	PASS, 4.16 % of 703 µV/V
2.0 V AC+DC @ 100.0 kHz	1.9980347	0.0115 %	1.99347	2.00653	-0.0983 %	0.3150 %	PASS, 31.17 % of 3152 µV/V
2.0 V AC+DC @ 200.0 kHz	1.9927173	0.0340 %	1.95882	2.04118	-0.3641 %	2.0250 %	PASS, 17.98 % of 20253 µV/V
2.0 V AC+DC @ 300.0 kHz	1.9895165	0.0340 %	1.95882	2.04118	-0.5242 %	2.0250 %	PASS, 25.88 % of 20253 µV/V
2.0 V AC+DC @ 500.0 kHz	1.9889933	0.0900 %	1.9542	2.0458	-0.5503 %	2.2000 %	PASS, 24.99 % of 22018 µV/V
2.0 V AC+DC @ 1.0 MHz	1.9969888	0.1500 %	1.953	2.047	-0.1506 %	2.2000 %	PASS, 6.83 % of 22051 µV/V
20 V AC+DC @ 10 Hz	20.000841	0.0220 %	19.9156	20.0844	0.0042 %	0.4000 %	PASS, 1.05 % of 4006 µV/V
20 V AC+DC @ 20 Hz	20.001599	0.0083 %	19.91835	20.08165	0.0080 %	0.4000 %	PASS, 2.00 % of 4001 µV/V
20 V AC+DC @ 50 Hz	20.002248	0.0040 %	19.96321	20.03679	0.0112 %	0.1800 %	PASS, 6.24 % of 1800 µV/V
20 V AC+DC @ 60 Hz	20.002218	0.0040 %	19.96321	20.03679	0.0111 %	0.1800 %	PASS, 6.16 % of 1800 µV/V
20 V AC+DC @ 100 Hz	20.002086	0.0040 %	19.96321	20.03679	0.0104 %	0.1800 %	PASS, 5.79 % of 1800 µV/V
20 V AC+DC @ 1.0 kHz	20.001047	0.0040 %	19.96321	20.03679	0.0052 %	0.1800 %	PASS, 2.91 % of 1800 µV/V
20 V AC+DC @ 6.25 kHz	19.998023	0.0040 %	19.95921	20.04079	-0.0099 %	0.2000 %	PASS, 4.94 % of 2000 µV/V
20 V AC+DC @ 10.0 kHz	19.997938	0.0040 %	19.95921	20.04079	-0.0103 %	0.2000 %	PASS, 5.15 % of 2000 µV/V
20 V AC+DC @ 20.0 kHz	19.999338	0.0040 %	19.95921	20.04079	-0.0033 %	0.2000 %	PASS, 1.65 % of 2000 µV/V
20 V AC+DC @ 50.0 kHz	20.004001	0.0070 %	19.9546	20.0454	0.0200 %	0.2200 %	PASS, 9.09 % of 2201 µV/V
20 V AC+DC @ 100.0 kHz	20.00163	0.0100 %	19.908	20.092	0.0081 %	0.4500 %	PASS, 1.81 % of 4501 µV/V
20 V AC+DC @ 200.0 kHz	19.987921	0.0280 %	19.1444	20.8556	-0.0604 %	4.2500 %	PASS, 1.42 % of 42501 µV/V
20 V AC+DC @ 300.0 kHz	19.994774	0.0280 %	19.1444	20.8556	-0.0261 %	4.2500 %	PASS, 0.61 % of 42501 µV/V
20 V AC+DC @ 500.0 kHz	20.071509	0.0900 %	18.782	21.218	0.3575 %	6.0000 %	PASS, 5.96 % of 60007 µV/V
20 V AC+DC @ 1.0 MHz	20.447476	0.1400 %	18.772	21.228	2.2374 %	6.0000 %	PASS, 37.28 % of 60016 µV/V
200.0 V AC+DC @ 10 Hz	200.03314	0.0220 %	199.426	200.574	0.0166 %	0.2650 %	PASS, 6.23 % of 2659 µV/V
200.0 V AC+DC @ 20 Hz	200.04085	0.0083 %	199.4535	200.5465	0.0204 %	0.2650 %	PASS, 7.70 % of 2651 µV/V
200.0 V AC+DC @ 50 Hz	200.04629	0.0048 %	199.9004	200.0996	0.0231 %	0.0450 %	PASS, 51.14 % of 453 µV/V
200.0 V AC+DC @ 60 Hz	200.04467	0.0048 %	199.9004	200.0996	0.0223 %	0.0450 %	PASS, 49.35 % of 453 µV/V
200.0 V AC+DC @ 100 Hz	200.04378	0.0048 %	199.9004	200.0996	0.0219 %	0.0450 %	PASS, 48.37 % of 453 µV/V
200.0 V AC+DC @ 1.0 kHz	200.03615	0.0048 %	199.9004	200.0996	0.0181 %	0.0450 %	PASS, 39.94 % of 453 µV/V
200.0 V AC+DC @ 6.25 kHz	200.00809	0.0048 %	199.8604	200.1396	0.0040 %	0.0650 %	PASS, 6.21 % of 652 µV/V
200.0 V AC+DC @ 10.0 kHz	200.01414	0.0048 %	199.8604	200.1396	0.0071 %	0.0650 %	PASS, 10.85 % of 652 µV/V
200.0 V AC+DC @ 20.0 kHz	200.02772	0.0048 %	199.8604	200.1396	0.0139 %	0.0650 %	PASS, 21.27 % of 652 µV/V
200.0 V AC+DC @ 50.0 kHz	200.03601	0.0075 %	199.815	200.185	0.0180 %	0.0850 %	PASS, 21.10 % of 853 µV/V
200.0 V AC+DC @ 100.0 kHz	199.9641	0.0133 %	199.3435	200.6565	-0.0179 %	0.3150 %	PASS, 5.69 % of 3153 µV/V
700.0 V AC+DC @ 50 Hz	699.7783	0.0079 %	699.445	700.555	-0.0317 %	0.0714 %	PASS, 44.07 % of 719 µV/V
700.0 V AC+DC @ 60 Hz	699.7902	0.0079 %	699.445	700.555	-0.0300 %	0.0714 %	PASS, 41.71 % of 719 µV/V

700.0 V AC+DC @ 100 Hz	699.7893	0.0079 %	699.445	700.555	-0.0301 %	0.0714 %	PASS , 41.89 % of 719 µV/V
700.0 V AC+DC @ 1.0 kHz	699.8346	0.0079 %	699.445	700.555	-0.0236 %	0.0714 %	PASS , 32.88 % of 719 µV/V
700.0 V AC+DC @ 6.25 kHz	699.9861	0.0111 %	699.2127	700.7873	-0.0020 %	0.1014 %	PASS , 1.95 % of 1020 µV/V
700.0 V AC+DC @ 10.0 kHz	700.138	0.0111 %	699.2127	700.7873	0.0197 %	0.1014 %	PASS , 19.32 % of 1020 µV/V
700.0 V AC+DC @ 20.0 kHz	700.4198	0.0111 %	699.2127	700.7873	0.0600 %	0.1014 %	PASS , 58.78 % of 1020 µV/V

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 µADC	0.9300 nA						INFO
1 µADC	1.00086 µA	0.162 %	9.971306E-07	1.002869E-06	0.0860 %	1250 µA/A	PASS , 42.04 % of 0.205 %
2 µADC	2.00089 µA	0.082 %	1.997057E-06	2.002943E-06	445.0 µA/A	650 µA/A	PASS , 42.49 % of 0.105 %
-1 µADC	-0.99909 µA	0.162 %	-1.002869E-06	-9.971306E-07	-0.0910 %	1250 µA/A	PASS , 44.48 % of 0.205 %
-2 µADC	-1.99909 µA	0.082 %	-2.002943E-06	-1.997057E-06	-455.0 µA/A	650 µA/A	PASS , 43.44 % of 0.105 %
Zero 00 µADC	1.1700 nA						INFO
10 µADC	10.00104 µA	182.0 µA/A	9.99648E-06	1.000352E-05	104.0 µA/A	170 µA/A	PASS , 41.76 % of 249 µA/A
20 µADC	20.00114 µA	102.0 µA/A	1.999576E-05	2.000424E-05	57.0 µA/A	110 µA/A	PASS , 38.00 % of 150 µA/A
-10 µADC	-9.99916 µA	182.0 µA/A	-1.000352E-05	-9.99648E-06	-84.0 µA/A	170 µA/A	PASS , 33.73 % of 249 µA/A
20 µADC	-19.99930 µA	102.0 µA/A	-2.000424E-05	-1.999576E-05	-35.0 µA/A	110 µA/A	PASS , 23.33 % of 150 µA/A
Zero 000 µADC	1.1700 nA						INFO
100 µADC	100.00099 µA	38.0 µA/A	9.999E-05	0.00010001	9.9 µA/A	62 µA/A	PASS , 13.61 % of 73 µA/A
200 µADC	200.00020 µA	30.0 µA/A	0.0001999828	0.0002000172	1.0 µA/A	56 µA/A	PASS , 1.57 % of 64 µA/A
-100 µADC	-100.00026 µA	38.0 µA/A	-0.00010001	-9.999E-05	2.6 µA/A	62 µA/A	PASS , 3.58 % of 73 µA/A
-200 µADC	-200.00107 µA	30.0 µA/A	-0.0002000172	-0.0001999828	5.4 µA/A	56 µA/A	PASS , 8.42 % of 64 µA/A
Zero mADC	10.4000 nA						INFO
1.0 mADC	1.000005 mA	26.0 µA/A	0.000999914	0.001000086	4.9 µA/A	60 µA/A	PASS , 7.49 % of 65 µA/A
2.0 mADC	1.999991 mA	24.0 µA/A	0.001999842	0.002000158	-4.5 µA/A	55 µA/A	PASS , 7.42 % of 60 µA/A
-1.0 mADC	-0.999996 mA	26.0 µA/A	-0.001000086	-0.000999914	-3.5 µA/A	60 µA/A	PASS , 5.35 % of 65 µA/A
-2.0 mADC	-2.000000 mA	24.0 µA/A	-0.002000158	-0.001999842	-0.1 µA/A	55 µA/A	PASS , 0.25 % of 60 µA/A
Zero 00 mADC	93.0000 nA						INFO
10 mADC	10.000204 mA	26.0 µA/A	0.00999914	0.01000086	20.4 µA/A	60 µA/A	PASS , 31.20 % of 65 µA/A
20 mADC	20.000225 mA	24.0 µA/A	0.01999842	0.02000158	11.2 µA/A	55 µA/A	PASS , 18.75 % of 60 µA/A
-10 mADC	-10.000132 mA	26.0 µA/A	-0.01000086	-0.00999914	13.2 µA/A	60 µA/A	PASS , 20.19 % of 65 µA/A
-20 mADC	-20.000300 mA	24.0 µA/A	-0.02000158	-0.01999842	15.0 µA/A	55 µA/A	PASS , 25.00 % of 60 µA/A
Zero 000 mADC	1.00000 µA						INFO
100 mADC	100.00301 mA	27.5 µA/A	0.09998875	0.1000112	30.1 µA/A	85 µA/A	PASS , 33.69 % of 89 µA/A
200 mADC	200.00032 mA	26.2 µA/A	0.1999788	0.2000212	1.6 µA/A	80 µA/A	PASS , 1.90 % of 84 µA/A
-100 mADC	-100.00282 mA	27.5 µA/A	-0.1000113	-0.09998875	28.2 µA/A	85 µA/A	PASS , 31.57 % of 89 µA/A
-200 mADC	-200.00264 mA	26.2 µA/A	-0.2000213	-0.1999787	13.2 µA/A	80 µA/A	PASS , 15.68 % of 84 µA/A
Zero ADC	5.50000 µA						INFO
2 ADC	2.0000114 A	43.0 µA/A	1.999204	2.000796	5.7 µA/A	355 µA/A	PASS , 1.59 % of 358 µA/A
-2 ADC	-2.0001336 A	43.0 µA/A	-2.000796	-1.999204	66.8 µA/A	355 µA/A	PASS , 18.68 % of 358 µA/A
-1 ADC	-1.0000083 A	46.0 µA/A	-1.000406	-0.999594	8.3 µA/A	360 µA/A	PASS , 2.29 % of 363 µA/A
1 ADC	0.9999716 A	46.0 µA/A	0.999594	1.000406	-28.4 µA/A	360 µA/A	PASS , 7.83 % of 363 µA/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 µAAC @ 50 Hz	5.00496E-05	0.0165 %	4.98017275e-05	5.01982725e-05	0.0992 %	0.380 %	PASS , 13.04 % of 7607 µA/A
100 µAAC @ 50 Hz	0.0001000175	0.0165 %	9.9618455e-05	0.000100381545	0.0175 %	0.365 %	PASS , 2.39 % of 7307 µA/A
200 µAAC @ 50 Hz	0.0001999339	0.0165 %	0.00019925191	0.00020074809	-0.0331 %	0.357 %	PASS , 4.62 % of 7158 µA/A
1.0 mAAC @ 50 Hz	0.0009995682	0.0138 %	0.00099671182	0.00100328818	-0.0432 %	0.315 %	PASS , 6.85 % of 6306 µA/A

2.0 mA AC @ 50 Hz	0.001999673	0.0138 %	0.00199357364	0.00200642636	-0.0163 %	0.307 %	PASS, 2.65 % of 6156 µA/A
10 mA AC @ 50 Hz	0.00996351	0.0138 %	0.0099671182	0.0100328818	-0.0365 %	0.315 %	PASS, 5.79 % of 6306 µA/A
20 mA AC @ 50 Hz	0.01999819	0.0138 %	0.0199357364	0.0200642636	-0.0091 %	0.308 %	PASS, 1.47 % of 6156 µA/A
100 mA AC @ 50 Hz	0.1000017	0.0134 %	0.099671636	0.100328364	0.0017 %	0.315 %	PASS, 0.27 % of 6306 µA/A
200 mA AC @ 50 Hz	0.2000534	0.0134 %	0.199358272	0.200641728	0.0267 %	0.307 %	PASS, 4.33 % of 6156 µA/A
1.0 A AC @ 50 Hz	0.9987693	0.0308 %	0.99604182	1.00395818	-0.1231 %	0.365 %	PASS, 16.80 % of 7326 µA/A
2.0 A AC @ 50 Hz	1.998949	0.0308 %	1.99223364	2.00776636	-0.0526 %	0.358 %	PASS, 7.33 % of 7177 µA/A
50 µA AC @ 60 Hz	5.00702E-05	0.0165 %	4.98767275e-05	5.01232725e-05	0.1404 %	0.230 %	PASS, 30.44 % of 4612 µA/A
100 µA AC @ 60 Hz	0.0001000367	0.0165 %	9.9768455e-05	0.000100231545	0.0367 %	0.215 %	PASS, 8.51 % of 4313 µA/A
200 µA AC @ 60 Hz	0.000199939	0.0165 %	0.00019955191	0.00020044809	-0.0305 %	0.208 %	PASS, 7.33 % of 4163 µA/A
1.0 mA AC @ 60 Hz	0.000996259	0.0138 %	0.00099821182	0.00100178818	-0.0374 %	0.165 %	PASS, 11.30 % of 3312 µA/A
2.0 mA AC @ 60 Hz	0.001999835	0.0138 %	0.00199657364	0.00200342636	-0.0083 %	0.157 %	PASS, 2.61 % of 3162 µA/A
10 mA AC @ 60 Hz	0.00999721	0.0138 %	0.0099821182	0.0100178818	-0.0279 %	0.165 %	PASS, 8.43 % of 3312 µA/A
20 mA AC @ 60 Hz	0.01999991	0.0138 %	0.0199657364	0.0200342636	-0.0005 %	0.158 %	PASS, 0.14 % of 3162 µA/A
100 mA AC @ 60 Hz	0.1000093	0.0134 %	0.099821636	0.100178364	0.0093 %	0.165 %	PASS, 2.81 % of 3311 µA/A
200 mA AC @ 60 Hz	0.200068	0.0134 %	0.199658272	0.200341728	0.0340 %	0.157 %	PASS, 10.76 % of 3161 µA/A
1.0 A AC @ 60 Hz	0.9988542	0.0308 %	0.99754182	1.00245818	-0.1146 %	0.215 %	PASS, 26.38 % of 4344 µA/A
2.0 A AC @ 60 Hz	1.999109	0.0308 %	1.99523364	2.00476636	-0.0446 %	0.208 %	PASS, 10.62 % of 4196 µA/A
50 µA AC @ 1.0 kHz	5.00466E-05	0.0165 %	4.97267275e-05	5.02732725e-05	0.0932 %	0.530 %	PASS, 8.79 % of 10605 µA/A
100 µA AC @ 1.0 kHz	0.0001000218	0.0165 %	9.9468455e-05	0.000100531545	0.0218 %	0.515 %	PASS, 2.12 % of 10305 µA/A
200 µA AC @ 1.0 kHz	0.0001999501	0.0165 %	0.00019895191	0.00020104809	-0.0250 %	0.507 %	PASS, 2.46 % of 10155 µA/A
1.0 mA AC @ 1.0 kHz	0.000996837	0.0138 %	0.00099851182	0.00100148818	-0.0316 %	0.135 %	PASS, 11.65 % of 2714 µA/A
2.0 mA AC @ 1.0 kHz	0.001999901	0.0138 %	0.00199717364	0.00200282636	-0.0049 %	0.127 %	PASS, 1.93 % of 2565 µA/A
10 mA AC @ 1.0 kHz	0.009998274	0.0138 %	0.0099851182	0.0100148818	-0.0173 %	0.135 %	PASS, 6.36 % of 2714 µA/A
20 mA AC @ 1.0 kHz	0.02000214	0.0138 %	0.0199717364	0.0200282636	0.0107 %	0.128 %	PASS, 4.18 % of 2565 µA/A
100 mA AC @ 1.0 kHz	0.1000215	0.0134 %	0.099821636	0.100178364	0.0215 %	0.165 %	PASS, 6.49 % of 3311 µA/A
200 mA AC @ 1.0 kHz	0.2000922	0.0134 %	0.199658272	0.200341728	0.0461 %	0.157 %	PASS, 14.59 % of 3161 µA/A
1.0 A AC @ 1.0 kHz	0.9989485	0.0308 %	0.99504182	1.00495818	-0.1051 %	0.465 %	PASS, 11.28 % of 9320 µA/A
2.0 A AC @ 1.0 kHz	1.999327	0.0308 %	1.99023364	2.00976636	-0.0337 %	0.457 %	PASS, 3.67 % of 9171 µA/A
50 µA AC @ 10.0 kHz	5.00657E-05	0.1400 %	4.974e-05	5.026e-05	0.1314 %	0.380 %	PASS, 16.22 % of 8099 µA/A
100 µA AC @ 10.0 kHz	0.0001000671	0.1400 %	9.9495e-05	0.000100505	0.0671 %	0.365 %	PASS, 8.58 % of 7819 µA/A
200 µA AC @ 10.0 kHz	0.0002000393	0.1400 %	0.000199005	0.000200995	0.0196 %	0.357 %	PASS, 2.56 % of 7679 µA/A
1.0 mA AC @ 10.0 kHz	0.000999378	0.1400 %	0.00099595	0.00100405	-0.0062 %	0.265 %	PASS, 1.04 % of 5994 µA/A
2.0 mA AC @ 10.0 kHz	0.002000173	0.1400 %	0.00199205	0.00200795	0.0087 %	0.257 %	PASS, 1.48 % of 5862 µA/A
10 mA AC @ 10.0 kHz	0.009999544	0.1300 %	0.0099605	0.0100395	-0.0046 %	0.265 %	PASS, 0.77 % of 5903 µA/A
20 mA AC @ 10.0 kHz	0.02000215	0.1300 %	0.0199225	0.0200775	0.0107 %	0.258 %	PASS, 1.86 % of 5769 µA/A
100 mA AC @ 10.0 kHz	0.1000751	0.1100 %	0.099375	0.100625	0.0751 %	0.515 %	PASS, 7.13 % of 10532 µA/A
200 mA AC @ 10.0 kHz	0.2001722	0.1100 %	0.198765	0.201235	0.0861 %	0.507 %	PASS, 8.29 % of 10386 µA/A
1.0 A AC @ 10.0 kHz	0.9965765	0.6100 %	0.97875	1.02125	-0.3424 %	1.515 %	PASS, 10.48 % of 32664 µA/A
2.0 A AC @ 10.0 kHz	1.991438	0.6100 %	1.95765	2.04235	-0.4281 %	1.507 %	PASS, 13.16 % of 32525 µA/A

Test date

07 October 2024 05:42

Lab temperature maintained +23°C ±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