3458A GPIB5 - F5720MMA

Manufacturer	HEWLETT-PACKARD	Calibration date	March 11 2019
Model Number	3458A	Ambient Temperature	24.83 °C
Serial	MM-GPIB3	Relative Humidity	49.90 %
ID Number	KS3458A	Pressure	1024.21
Notes	Test front ports	Test type	First

This note is test dummy text block for further use. It allow to include user information for further reference

Reference standard	Mfg	Model	Options	Serial / Unc	CEID	Calibration date	Due date
CAL MFC	Fluke	5700A	/03 WB	XXX	MC01	11/14/2017	11/14/2018
DUT MFC	Fluke	5700B	/03 WB	XXX	MC02	03/07/2019	04/07/2019
DC STD	Fluke	732B-3	9.9999323 VDC	±0.55 ppm	SV03	08/20/2016	08/20/2017
DC STD	Fluke	732B-3	9.9999288 VDC	±0.56 ppm	SV03	11/03/2017	11/03/2018
STDR	IET	1 Ohm	0.99997483	±0.17 ppm	SM02	11/03/2017	11/30/2018
STDR	ESI	SR104	10000.0530 KΩ	±0.15 ppm	SM01	10/30/2017	10/30/2018

MFC last calibrated	153.0 days ago	MFC since DCV ZERO	2.0 days ago
MFC since WBFLAT	11391.0 days ago	MFC since WBGAIN	153.0 days ago
MFC Confidence level	**24h 95% REL**	MFC Calibrate date	2018-10-09 00:00:00
MFC Calibrate date Zero	2019-03-09 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	2018-10-09 00:00:00	CAL CONST 6.5V reference voltage	6.89136168035
CAL CONST 13V reference voltage	13.7948160154	CAL CONST 22V range positive zero	398.17882
CAL CONST 22V range negative zero	398.1784	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	10000.076726	CAL CONST 10KOHM standard resistance	10000.4488527
CAL CONST, Zero calibration temperature	23.0	CAL CONST, All calibration temp	23.0

This note is test MFC dummy text block for further use.
Calibrator was warmed up >8 hours.

Meter Info	HP3458A	Last calibration date	7/24/2018
CALSTR?	""	Test date	11 March 2019 12:52
DUT Internal TEMP?	38.6	DUT Calibrations number?	62
Self-test result?	0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"
Firmware	9,1	Options	1,0
CAL? 72	0.988089839	CAL? 1,1	40000.5451
CAL? 2,1	7.09585414	CAL? Res 73	0.987478735
CAL 0 TEMP	39.39	CAL 10V TEMP	39.58
CAL 10KOhm TEMP	39.07	CAL? DCI	0.986670072

Service information

CAL DUMP
[(1, 40000.5451), (1, 7.09585414), (1, -1.61334594e-07), (1, 1.77715027e-07), (1, -1.87574685e-07), (1, 2.09718919e-07), (1, 3.30186431e-07), (1, 7.83554369e-07), (1, -7.22282096e-05), (1, -7.22282096e-05), (1, -2.94314918e-05), (1, -2.94314918e-05), (1, 0.398472788), (1, 0.398309351), (1, 0.398128924), (1, 0.396539909), (1, 0.403710607), (1, 0.529671806), (1, 0.792832333), (1, 0.864908), (1, 0.864908), (1, 0.576999532), (1, 0.577134503), (1, 0.577040447), (1, 0.579179754), (1, 0.590869808), (1, 0.637768093), (1, 1.11717283), (1, 1.8379295), (1, 1.8379295), (1, 0.000338714037), (1, 0.00319995972), (1, 0.00343805366), (1, 0.0347656069), (1, 0.0733004181), (1, 0.65578414), (1, 7.31568017), (1, 7.27964233), (1, 7.27964233), (1, 0.000184743046), (1, 0.00183052842), (1, 0.00198795186), (1, 0.0204554408), (1, 0.046537661), (1, 0.446797986), (1, 3.459632), (1, 4.93718317), (1, 4.93718317), (1, 398.0), (1, 39.0), (1, 3.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 39.3942711), (1, 39.5756928), (1, 39.0665399), (1, 177.0), (1, -5.25518733e-12), (1, -1.08538162e-11), (1, -8.355433e-11), (1, -5.24016141e-10), (1, -3.86949076e-09), (1, -3.76334059e-08), (1, -3.29333188e-07), (1, -2.54796378e-06), (1, 0.986816876), (1, 0.987493368), (1, 0.988089839), (1, 0.987478735), (1, 0.988075198), (1, 1.00204108), (1, 1.00198568), (1, 1.00267257), (1, 1.00212484), (1, 1.00240122), (1, 1.00274169), (1, 1.00290137), (1, 1.00290137), (1, 1.00290137), (1, 1.00204108), (1, 1.00198572), (1, 1.00267261), (1, 1.00212514), (1, 1.002402), (1, 1.00274169), (1, 1.00290137), (1, 1.00290137), (1, 1.00290137), (1, 0.986670072), (1, 0.986878417), (1, 0.986927196), (1, 0.988374107), (1, 0.986451694), (1, 0.98631747), (1, 0.983641561), (1, 0.972366724), (1, 76.0), (1, 111.0), (1, 5.00962288), (1, 3.7868018e-11), (1, -8.74318131e-12), (1, 10001293.1), (1, -0.00693947933), (1, -0.0491308596), (1, 0.999999241), (1, 0.999999855), (1, 1666.98406), (1, 16666.9727), (1, 5116.0), (1, 5112.0), (1, 5109.0), (1, 5112.0), (1, 5109.0), (1, 61392.0), (1, 61344.0), (1, 61308.0), (1, 61344.0), (1, 61308.0), (1, 4999.0), (1, 4999.0), (1, 4995.0), (1, 4998.0), (1, 2498.0), (1, 2497.0), (1, 2497.0), (1, 12486.0), (1, 22703.0), (1, 59988.0), (1, 59988.0), (1, 59940.0), (1, 59976.0), (1, 29976.0), (1, 29964.0), (1, 29964.0), (1, 149832.0), (1, 272436.0), (1, 4999.0), (1, 4999.0), (1, 4995.0), (1, 4998.0), (1, 2498.0), (1, 2497.0), (1, 2497.0), (1, 12486.0), (1, 22703.0), (1, 59988.0), (1, 59988.0), (1, 59940.0), (1, 59976.0), (1, 29976.0), (1, 29964.0), (1, 29964.0), (1, 149832.0), (1, 272436.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 38.6159859), (1, 38.6768577), (1, 38.6729799), (1, 136.0), (1, 137.0), (1, 134.0), (1, 131.0), (1, 137.0), (1, 138.0), (1, 130.0), (1, 130.0), (1, 133.0), (1, 131.0), (1, 137.0), (1, 138.0), (1, 138.0), (1, 138.0), (1, 138.0), (1, 138.0), (1, 138.0), (1, 2286.0), (1, 2283.0), (1, 2270.0), (1, 2811.0), (1, 2983.0), (1, 2988.0), (1, 132.0), (1, 127.0), (1, 126.0), (1, 126.0), (1, 129.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, -0.00168635692), (1, -0.0189700043), (1, -0.187780981), (1, -1.87409667), (1, -18.3800932), (1, -184.705412), (1, -0.00187736163), (1, -0.0188978321), (1, -0.186718337), (1, -1.87722413), (1, -18.3944203), (1, -184.785104), (1, 0.994114755), (1, 1.00100975), (1, 0.984401951), (1, 0.981888141), (1, 0.97326032), (1, 0.972183802), (1, 104076.595), (1, 10.371732), (1, 0.982184665), (1, 0.989078597), (1, 0.972668745), (1, 0.970184897), (1, 0.961659912), (1, 0.960596226), (1, 3.69253584e-06), (1, 3.80323152e-05), (1, 0.000380323152), (1, 0.00380323152), (1, 0.0380323152), (1, 0.380323152), (1, 1.02732291), (1, 1.00020419), (1, 0.999831729), (1, 0.999979783), (1, 78.0), (1, 55.0), (1, 55.0), (1, 55.0), (1, 73.0), (1, 119.0), (1, 119.0), (1, 9.0)]
Destructive overloads?
71, DESTRUCTIVE OVERLOADS valid 2941
Reference
Direct MFC test, verification 5720MMA
DUT Condition
Test after reassembly

Test procedure : $Id: hp3458a.py | Rev 1196 | 2019/03/11 16:10:33 clu $

Source procedure : $Id: f5720a.py | Rev 1196 | 2019/03/11 16:10:33 clu $

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	Expected Value	Measured Value	Measurement Uncertainty	Lower Limit	Upper Limit	Deviation	DUT Spec	Test Status
Short 0 mVDC	0.0000000E+00	**0.19 µV**	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	PASS
Short 0.0 VDC	0.0000000E+00	**0.19 µV**	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	PASS
Short 00.0 VDC	0.0000000E+00	**0.39 µV**	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	PASS
Short 000.0 VDC	0.0000000E+00	**10.91 µV**	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	PASS
Short 0000.0 VDC	0.0000000E+00	**40.51 µV**	0.75 µV	-41.750 µV	41.750 µV	N/A	41.00 µV	PASS
DCV Test	**0.1V-1000V**	**DUT**	**Source unc.**	**Low Limit**	**Hi limit**	**Measured**	**24h spec**	**Result**
0.1 VDC (0.10 Range)	0.1000000	**0.099999952**	7.27 ppm	0.099998723	0.10000128	-0.476 ppm	5.50 ppm	PASS 3.73 %
-0.1 VDC (0.10 Range)	-0.1000000	**-0.099999849**	7.27 ppm	-0.10000128	-0.099998723	-1.509 ppm	5.50 ppm	PASS 11.82 %
0.1 VDC (1.00 Range)	0.1000000	**0.10000003**	7.27 ppm	0.099999093	0.10000091	0.344 ppm	1.80 ppm	PASS 3.79 %
0.2 VDC (1.00 Range)	0.2000000	**0.20000022**	3.86 ppm	0.19999887	0.20000113	1.114 ppm	1.80 ppm	PASS 19.68 %
1.0 VDC (1.00 Range)	1.0000000	**0.99999926**	3.86 ppm	0.99999434	1.0000057	-0.740 ppm	1.80 ppm	PASS 13.08 %
-0.1 VDC (1.00 Range)	-0.1000000	**-0.099999949**	7.27 ppm	-0.10000091	-0.099999093	-0.510 ppm	1.80 ppm	PASS 5.63 %
-0.2 VDC (1.00 Range)	-0.2000000	**-0.1999999**	3.86 ppm	-0.20000113	-0.19999887	-0.510 ppm	1.80 ppm	PASS 9.01 %
-1.0 VDC (1.00 Range)	-1.0000000	**-0.99999903**	3.86 ppm	-1.0000057	-0.99999434	-0.969 ppm	1.80 ppm	PASS 17.13 %
1.0 VDC (10.00 Range)	1.0000000	**0.99999873**	3.86 ppm	0.99999559	1.0000044	-1.274 ppm	0.55 ppm	PASS 28.88 %
2.0 VDC (10.00 Range)	2.0000000	**1.9999981**	2.77 ppm	1.9999934	2.0000066	-0.928 ppm	0.55 ppm	PASS 27.97 %
10.0 VDC (10.00 Range)	10.0000000	**9.9999948**	2.73 ppm	9.9999672	10.000033	-0.525 ppm	0.55 ppm	PASS 16.00 %
-1.0 VDC (10.00 Range)	-1.0000000	**-0.99999905**	3.86 ppm	-1.0000044	-0.99999559	-0.950 ppm	0.55 ppm	PASS 21.54 %
-2.0 VDC (10.00 Range)	-2.0000000	**-1.9999982**	2.77 ppm	-2.0000066	-1.9999934	-0.881 ppm	0.55 ppm	PASS 26.54 %
-10.0 VDC (10.00 Range)	-10.0000000	**-9.999995**	2.73 ppm	-10.000033	-9.9999672	-0.497 ppm	0.55 ppm	PASS 15.15 %
10 VDC (100.00 Range)	10.0000000	**10.000026**	2.77 ppm	9.9999443	10.000056	2.647 ppm	2.80 ppm	PASS 47.53 %
20 VDC (100.00 Range)	20.0000000	**20.000013**	3.73 ppm	19.999869	20.000131	0.663 ppm	2.80 ppm	PASS 10.15 %
100 VDC (100.00 Range)	100.0000000	**99.999925**	3.73 ppm	99.999347	100.00065	-0.750 ppm	2.80 ppm	PASS 11.49 %
-10 VDC (100.00 Range)	-10.0000000	**-9.9999695**	2.77 ppm	-10.000056	-9.9999443	-3.047 ppm	2.80 ppm	PASS 54.71 %
-20 VDC (100.00 Range)	-20.0000000	**-19.999959**	3.73 ppm	-20.000131	-19.999869	-2.061 ppm	2.80 ppm	PASS 31.57 %
-100 VDC (100.00 Range)	-100.0000000	**-99.99987**	3.73 ppm	-100.00065	-99.999347	-1.296 ppm	2.80 ppm	PASS 19.85 %
100 VDC (1000.00 Range)	100.0000000	**99.999838**	3.73 ppm	99.999367	100.00063	-1.625 ppm	2.60 ppm	PASS 25.67 %
200 VDC (1000.00 Range)	200.0000000	**199.99965**	3.73 ppm	199.99873	200.00127	-1.740 ppm	2.60 ppm	PASS 27.48 %
1000 VDC (1000.00 Range)	1000.0000000	**1000.0003**	5.45 ppm	999.97995	1000.02	0.256 ppm	2.60 ppm	PASS 1.28 %
-100 VDC (1000.00 Range)	-100.0000000	**-99.999946**	3.73 ppm	-100.00063	-99.999367	-0.542 ppm	2.60 ppm	PASS 8.56 %
-200 VDC (1000.00 Range)	-200.0000000	**-199.99972**	3.73 ppm	-200.00127	-199.99873	-1.405 ppm	2.60 ppm	PASS 22.19 %
-1000 VDC (1000.00 Range)	-1000.0000000	**-1000.0008**	5.45 ppm	-1000.02	-999.97995	0.785 ppm	2.60 ppm	PASS 19.89 %

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 tested using the external standard, as MFC unable to provide this range value.

OHM Test	1 Ohm to 1 GOhm	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1 Ω	0.9998017	**0.99975768**	32.0 ppm	9.9976171E-01	9.9984169E-01	-44.026 ppm	8.0 ppm	FAIL 110.06 %
1.9 Ω	1.8995064	**1.8994447**	25.0 ppm	1.8994437E+00	1.8995691E+00	-32.465 ppm	8.0 ppm	PASS 98.38 %
10 Ω	9.999933	**9.999849**	5.0 ppm	9.9998030E+00	1.0000063E+01	-8.400 ppm	8.0 ppm	PASS 64.62 %
19 Ω	18.999097	**18.999042**	4.0 ppm	1.8998907E+01	1.8999287E+01	-2.880 ppm	6.0 ppm	PASS 28.80 %
100 Ω	100.00183	**100.0016**	1.7 ppm	1.0000106E+02	1.0000260E+02	-2.331 ppm	6.0 ppm	PASS 30.27 %
190 Ω	189.99505	**189.99484**	1.7 ppm	1.8999431E+02	1.8999579E+02	-1.122 ppm	2.2 ppm	PASS 28.76 %
1.0 kΩ	999.9918	**999.9899**	1.7 ppm	9.9998790E+02	9.9999570E+02	-1.899 ppm	2.2 ppm	PASS 48.69 %
1.9 kΩ	1899.9976	**1899.9946**	1.7 ppm	1.8999902E+03	1.9000050E+03	-1.558 ppm	2.2 ppm	PASS 39.96 %
10 kΩ	10000.084	**10000.062**	1.6 ppm	1.0000046E+04	1.0000122E+04	-2.179 ppm	2.2 ppm	PASS 57.34 %
19 kΩ	18999.701	**18999.675**	1.7 ppm	1.8999627E+04	1.8999775E+04	-1.354 ppm	2.2 ppm	PASS 34.72 %
100 kΩ	100001.4	**100000.75**	2.0 ppm	1.0000098E+05	1.0000182E+05	-6.475 ppm	2.2 ppm	FAIL 154.16 %
190 kΩ	189992.98	**189992.79**	2.0 ppm	1.8999051E+05	1.8999545E+05	-1.016 ppm	11.0 ppm	PASS 7.82 %
1.0 MΩ	1000003.1	**999997.2**	2.5 ppm	9.9998960E+05	1.0000166E+06	-5.899 ppm	11.0 ppm	PASS 43.69 %
1.9 MΩ	1899959.2	**1899928.8**	3.0 ppm	1.8998490E+06	1.9000694E+06	-15.995 ppm	55.0 ppm	PASS 27.58 %
10 MΩ	9999407	**9999034.2**	10.0 ppm	9.9987570E+06	1.0000057E+07	-37.282 ppm	55.0 ppm	PASS 57.36 %
19 MΩ	18999096	**18999630**	20.0 ppm	1.8989026E+07	1.9009166E+07	28.098 ppm	510.0 ppm	PASS 5.30 %
100 MΩ	1.000094E+08	**1.0001815E+08**	50.0 ppm	9.9953395E+07	1.0006541E+08	87.463 ppm	510.0 ppm	PASS 15.62 %

4W and 2W Zero test procedure for all test points that verify Zero offset of the OHMF function. 4-wire kelvin connection is used between DMM and MFC. 1GΩ resistance range is tested using the external standard, as MFC unable to provide this range value.

OHM ZERO 4W	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10 Ω	**Range 0.0000025 Ω**	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	**Range -0.0000113 Ω**	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	**Range -0.0000036 Ω**	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	**Range -0.0003421 Ω**	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	**Range 0.0050428 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	**Range 0.1405252 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	**Range 0.5766054 Ω**	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	**Range 0.8649081 Ω**	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	**Range 0.6847189 Ω**	5.500e+03 Ω	-5500	5500	N/A	2.2000e-06 Ω	PASS
OHM ZERO 2W	**DUT**	**Source unc.**	**Low Limit**	**Hi limit**	**Measured**	**24h spec**	**Result**
10 Ω	**Range 0.2067414 Ω**	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	**Range 0.2067987 Ω**	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	**Range 0.2064892 Ω**	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	**Range 0.2081372 Ω**	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	**Range 0.1973888 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	**Range 0.2954627 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	**Range 1.7658485 Ω**	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	**Range 2.6307546 Ω**	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	**Range 2.5947169 Ω**	5.500e+03 Ω	-5500	5500	N/A	2.2000e-06 Ω	PASS

Procedure for all test points in the AC performance verification for ANAlog mode. 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 ANA Test	1V-10V	DUT	w/Guardband	Low Limit	Hi limit	Units	Measured	24h spec	Result
1.0 VAC @ 50.0 kHz	1.0	**1.9621222**	129.09	0.99955091	1.00044909	VAC	962122.174 ppm	320.0 ppm	FAIL 214238.16 %
1.0 VAC @ 1.0 MHz	1.0	**1.0012286**	0.2500 %	0.9874	1.0126	VAC	0.1229 %	1.0100 %	PASS 9.75 %
10 VAC @ 40 Hz	10	**10.00073**	0.0073 %	9.8982682	10.1017318	VAC	0.0073 %	1.0100 %	PASS 0.72 %
10 VAC @ 200 Hz	10	**9.9998688**	73.18	9.9983682	10.0016318	VAC	-13.118 ppm	90.0 ppm	PASS 8.04 %
10 VAC @ 500 Hz	10	**9.9998303**	73.18	9.9983682	10.0016318	VAC	-16.972 ppm	90.0 ppm	PASS 10.40 %
10 VAC @ 50.0 kHz	10	**9.9950274**	129.09	9.9955091	10.0044909	VAC	-497.264 ppm	320.0 ppm	FAIL 110.73 %
10 VAC @ 1.0 MHz	10	**9.9822954**	0.3000 %	9.869	10.131	VAC	-0.1770 %	1.0100 %	PASS 13.51 %

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	DUT	w/Guardband	Low Limit	Hi limit	Measured	24h spec	Result, % spec
0.01 V AC+DC @ 10 Hz	**0.0099990657**	0.0312 %	0.009991	0.010009	-0.0093 %	0.0600 %	PASS 10.24 %
0.01 V AC+DC @ 20 Hz	**0.0099986896**	0.0312 %	0.009991	0.010009	-0.0131 %	0.0600 %	PASS 14.36 %
0.01 V AC+DC @ 40 Hz	**0.009998506**	0.0312 %	0.009991	0.010009	-0.0149 %	0.0600 %	PASS 16.38 %
0.01 V AC+DC @ 100 Hz	**0.009998563**	0.0312 %	0.009994	0.010006	-0.0144 %	0.0310 %	PASS 23.09 %
0.01 V AC+DC @ 1.0 kHz	**0.0099986047**	0.0312 %	0.009994	0.010006	-0.0140 %	0.0310 %	PASS 22.42 %
0.01 V AC+DC @ 10.0 kHz	**0.0099988462**	0.0312 %	0.009993	0.010007	-0.0115 %	0.0410 %	PASS 15.98 %
0.01 V AC+DC @ 20.0 kHz	**0.0099970038**	0.0312 %	0.009993	0.010007	-0.0300 %	0.0410 %	PASS 41.48 %
0.01 V AC+DC @ 50.0 kHz	**0.0099897944**	0.0447 %	0.009984	0.010016	-0.1021 %	0.1110 %	PASS 65.54 %
0.01 V AC+DC @ 100.0 kHz	**0.0099570229**	0.0773 %	0.009941	0.010059	-0.4298 %	0.5110 %	PASS 73.06 %
0.01 V AC+DC @ 300.0 kHz	**0.0096734764**	0.1500 %	0.009583	0.010417	-3.2652 %	4.0200 %	PASS 78.30 %
0.01 V AC+DC @ 500.0 kHz	**0.0092284406**	0.2500 %	0.006770	0.013230	-7.7156 %	32.0500 %	PASS 23.89 %
0.01 V AC+DC @ 1.0 MHz	**0.0076571693**	0.4000 %	0.006755	0.013245	-23.4283 %	32.0500 %	PASS 72.20 %
0.03 V AC+DC @ 10 Hz	**0.030003653**	0.0121 %	0.029993	0.030007	0.0122 %	0.0110 %	PASS 52.63 %
0.03 V AC+DC @ 20 Hz	**0.030003703**	0.0121 %	0.029993	0.030007	0.0123 %	0.0110 %	PASS 53.35 %
0.03 V AC+DC @ 40 Hz	**0.030003262**	0.0121 %	0.029993	0.030007	0.0109 %	0.0110 %	PASS 46.99 %
0.03 V AC+DC @ 100 Hz	**0.030003395**	0.0121 %	0.029994	0.030006	0.0113 %	0.0090 %	PASS 53.54 %
0.03 V AC+DC @ 1.0 kHz	**0.030001969**	0.0121 %	0.029994	0.030006	0.0066 %	0.0090 %	PASS 31.06 %
0.03 V AC+DC @ 10.0 kHz	**0.030003227**	0.0121 %	0.029992	0.030008	0.0108 %	0.0160 %	PASS 38.23 %
0.03 V AC+DC @ 20.0 kHz	**0.030002068**	0.0121 %	0.029992	0.030008	0.0069 %	0.0160 %	PASS 24.50 %
0.03 V AC+DC @ 50.0 kHz	**0.030002848**	0.0256 %	0.029983	0.030017	0.0095 %	0.0320 %	PASS 16.47 %
0.03 V AC+DC @ 100.0 kHz	**0.029995971**	0.0591 %	0.029958	0.030042	-0.0134 %	0.0820 %	PASS 9.52 %
0.03 V AC+DC @ 300.0 kHz	**0.029952187**	0.0964 %	0.029878	0.030122	-0.1594 %	0.3100 %	PASS 39.22 %
0.03 V AC+DC @ 500.0 kHz	**0.029913118**	0.1500 %	0.029652	0.030348	-0.2896 %	1.0100 %	PASS 24.97 %
0.03 V AC+DC @ 1.0 MHz	**0.02984339**	0.3000 %	0.029607	0.030393	-0.5220 %	1.0100 %	PASS 39.85 %
0.1 V AC+DC @ 10 Hz	**0.1000001**	0.0121 %	0.099977	0.100023	0.0001 %	0.0110 %	PASS 0.43 %
0.1 V AC+DC @ 20 Hz	**0.099996405**	0.0121 %	0.099977	0.100023	-0.0036 %	0.0110 %	PASS 15.54 %
0.1 V AC+DC @ 40 Hz	**0.0999964**	0.0121 %	0.099977	0.100023	-0.0036 %	0.0110 %	PASS 15.56 %
0.1 V AC+DC @ 100 Hz	**0.099995991**	0.0121 %	0.099979	0.100021	-0.0040 %	0.0090 %	PASS 18.97 %
0.1 V AC+DC @ 1.0 kHz	**0.099993955**	0.0121 %	0.099979	0.100021	-0.0060 %	0.0090 %	PASS 28.60 %
0.1 V AC+DC @ 10.0 kHz	**0.099994461**	0.0121 %	0.099972	0.100028	-0.0055 %	0.0160 %	PASS 19.69 %
0.1 V AC+DC @ 20.0 kHz	**0.099994028**	0.0121 %	0.099972	0.100028	-0.0060 %	0.0160 %	PASS 21.23 %
0.1 V AC+DC @ 50.0 kHz	**0.099995148**	0.0256 %	0.099942	0.100058	-0.0049 %	0.0320 %	PASS 8.42 %
0.1 V AC+DC @ 100.0 kHz	**0.099968152**	0.0591 %	0.099859	0.100141	-0.0318 %	0.0820 %	PASS 22.57 %
0.1 V AC+DC @ 300.0 kHz	**0.099819375**	0.0964 %	0.099594	0.100406	-0.1806 %	0.3100 %	PASS 44.45 %
0.1 V AC+DC @ 500.0 kHz	**0.099688585**	0.1500 %	0.098840	0.101160	-0.3114 %	1.0100 %	PASS 26.85 %
0.1 V AC+DC @ 1.0 MHz	**0.099470202**	0.3000 %	0.098690	0.101310	-0.5298 %	1.0100 %	PASS 40.44 %
0.3 V AC+DC @ 10 Hz	**0.30001388**	0.0050 %	0.299952	0.300048	0.0046 %	0.0110 %	PASS 29.00 %
0.3 V AC+DC @ 20 Hz	**0.30000703**	0.0050 %	0.299952	0.300048	0.0023 %	0.0110 %	PASS 14.68 %
0.3 V AC+DC @ 40 Hz	**0.30000441**	0.0050 %	0.299952	0.300048	0.0015 %	0.0110 %	PASS 9.21 %
0.3 V AC+DC @ 100 Hz	**0.30000357**	0.0050 %	0.299958	0.300042	0.0012 %	0.0090 %	PASS 8.54 %
0.3 V AC+DC @ 1.0 kHz	**0.30000063**	0.0050 %	0.299958	0.300042	0.0002 %	0.0090 %	PASS 1.49 %
0.3 V AC+DC @ 10.0 kHz	**0.30000315**	0.0050 %	0.299937	0.300063	0.0010 %	0.0160 %	PASS 5.01 %
0.3 V AC+DC @ 20.0 kHz	**0.30000012**	0.0050 %	0.299937	0.300063	0.0000 %	0.0160 %	PASS 0.19 %
0.3 V AC+DC @ 50.0 kHz	**0.30004032**	0.0085 %	0.299878	0.300122	0.0134 %	0.0320 %	PASS 33.15 %
0.3 V AC+DC @ 100.0 kHz	**0.30010387**	0.0138 %	0.299713	0.300287	0.0346 %	0.0820 %	PASS 36.13 %
0.3 V AC+DC @ 300.0 kHz	**0.30040915**	0.0425 %	0.298942	0.301058	0.1364 %	0.3100 %	PASS 38.69 %
0.3 V AC+DC @ 500.0 kHz	**0.30078257**	0.1100 %	0.296640	0.303360	0.2609 %	1.0100 %	PASS 23.29 %
0.3 V AC+DC @ 1.0 MHz	**0.30124875**	0.1800 %	0.296430	0.303570	0.4162 %	1.0100 %	PASS 34.98 %
1.0 V AC+DC @ 10 Hz	**1.0000438**	0.0050 %	0.999840	1.000160	0.0044 %	0.0110 %	PASS 27.44 %
1.0 V AC+DC @ 20 Hz	**1.0000174**	0.0050 %	0.999840	1.000160	0.0017 %	0.0110 %	PASS 10.94 %
1.0 V AC+DC @ 40 Hz	**1.0000148**	0.0050 %	0.999840	1.000160	0.0015 %	0.0110 %	PASS 9.27 %
1.0 V AC+DC @ 100 Hz	**1.0000096**	0.0050 %	0.999860	1.000140	0.0010 %	0.0090 %	PASS 6.89 %
1.0 V AC+DC @ 1.0 kHz	**1.000001**	0.0050 %	0.999860	1.000140	0.0001 %	0.0090 %	PASS 0.73 %
1.0 V AC+DC @ 10.0 kHz	**0.99997807**	0.0050 %	0.999790	1.000210	-0.0022 %	0.0160 %	PASS 10.47 %
1.0 V AC+DC @ 20.0 kHz	**0.99999935**	0.0050 %	0.999790	1.000210	-0.0001 %	0.0160 %	PASS 0.31 %
1.0 V AC+DC @ 50.0 kHz	**1.0001094**	0.0085 %	0.999595	1.000405	0.0109 %	0.0320 %	PASS 26.98 %
1.0 V AC+DC @ 100.0 kHz	**1.0002768**	0.0138 %	0.999042	1.000958	0.0277 %	0.0820 %	PASS 28.88 %
1.0 V AC+DC @ 300.0 kHz	**1.0013591**	0.0425 %	0.996475	1.003525	0.1359 %	0.3100 %	PASS 38.55 %
1.0 V AC+DC @ 500.0 kHz	**1.0025937**	0.1100 %	0.988800	1.011200	0.2594 %	1.0100 %	PASS 23.16 %
1.0 V AC+DC @ 1.0 MHz	**1.00548**	0.1800 %	0.988100	1.011900	0.5480 %	1.0100 %	PASS 46.05 %
3.0 V AC+DC @ 10 Hz	**3.0001426**	0.0048 %	2.999525	3.000475	0.0048 %	0.0110 %	PASS 30.05 %
3.0 V AC+DC @ 20 Hz	**3.0000544**	0.0048 %	2.999525	3.000475	0.0018 %	0.0110 %	PASS 11.46 %
3.0 V AC+DC @ 40 Hz	**3.000027**	0.0048 %	2.999525	3.000475	0.0009 %	0.0110 %	PASS 5.69 %
3.0 V AC+DC @ 100 Hz	**3.0000454**	0.0048 %	2.999585	3.000415	0.0015 %	0.0090 %	PASS 10.95 %

3.0 V AC+DC @ 1.0 kHz	**3.0000022**	0.0048 %	2.999585	3.000415	0.0001 %	0.0090 %	PASS 0.53 %
3.0 V AC+DC @ 10.0 kHz	**2.9999503**	0.0048 %	2.999375	3.000625	-0.0017 %	0.0160 %	PASS 7.95 %
3.0 V AC+DC @ 20.0 kHz	**3.0000027**	0.0048 %	2.999375	3.000625	0.0001 %	0.0160 %	PASS 0.44 %
3.0 V AC+DC @ 50.0 kHz	**2.9998562**	0.0085 %	2.998784	3.001216	-0.0048 %	0.0320 %	PASS 11.82 %
3.0 V AC+DC @ 100.0 kHz	**2.9989098**	0.0121 %	2.997176	3.002824	-0.0363 %	0.0820 %	PASS 38.60 %
3.0 V AC+DC @ 300.0 kHz	**2.9928452**	0.0336 %	2.989691	3.010309	-0.2385 %	0.3100 %	PASS 69.40 %
3.0 V AC+DC @ 500.0 kHz	**2.9928194**	0.1100 %	2.966400	3.033600	-0.2394 %	1.0100 %	PASS 21.37 %
3.0 V AC+DC @ 1.0 MHz	**3.0045076**	0.1700 %	2.964600	3.035400	0.1503 %	1.0100 %	PASS 12.73 %
10.0 V AC+DC @ 10 Hz	**10.000437**	0.0048 %	9.998418	10.001582	0.0044 %	0.0110 %	PASS 27.62 %
10.0 V AC+DC @ 20 Hz	**10.000145**	0.0048 %	9.998418	10.001582	0.0014 %	0.0110 %	PASS 9.15 %
10.0 V AC+DC @ 40 Hz	**10.000086**	0.0048 %	9.998418	10.001582	0.0009 %	0.0110 %	PASS 5.41 %
10.0 V AC+DC @ 100 Hz	**10.000058**	0.0048 %	9.998618	10.001382	0.0006 %	0.0090 %	PASS 4.21 %
10.0 V AC+DC @ 1.0 kHz	**9.9999187**	0.0048 %	9.998618	10.001382	-0.0008 %	0.0090 %	PASS 5.88 %
10.0 V AC+DC @ 10.0 kHz	**9.9997054**	0.0048 %	9.997918	10.002082	-0.0029 %	0.0160 %	PASS 14.15 %
10.0 V AC+DC @ 20.0 kHz	**9.9998313**	0.0048 %	9.997918	10.002082	-0.0017 %	0.0160 %	PASS 8.10 %
10.0 V AC+DC @ 50.0 kHz	**9.9992854**	0.0085 %	9.995945	10.004054	-0.0071 %	0.0320 %	PASS 17.63 %
10.0 V AC+DC @ 100.0 kHz	**9.9956944**	0.0121 %	9.990586	10.009414	-0.0431 %	0.0820 %	PASS 45.74 %
10.0 V AC+DC @ 300.0 kHz	**9.9762047**	0.0336 %	9.965636	10.034364	-0.2380 %	0.3100 %	PASS 69.25 %
10.0 V AC+DC @ 500.0 kHz	**9.9757311**	0.1100 %	9.888000	10.112000	-0.2427 %	1.0100 %	PASS 21.67 %
10.0 V AC+DC @ 1.0 MHz	**10.029573**	0.1700 %	9.882000	10.118000	0.2957 %	1.0100 %	PASS 25.06 %
30 V AC+DC @ 10 Hz	**30.000717**	0.0060 %	29.990995	30.009005	0.0024 %	0.0240 %	PASS 7.96 %
30 V AC+DC @ 20 Hz	**30.000086**	0.0060 %	29.990995	30.009005	0.0003 %	0.0240 %	PASS 0.96 %
30 V AC+DC @ 40 Hz	**29.999944**	0.0060 %	29.990995	30.009005	-0.0002 %	0.0240 %	PASS 0.62 %
30 V AC+DC @ 100 Hz	**29.999798**	0.0060 %	29.991595	30.008405	-0.0007 %	0.0220 %	PASS 2.40 %
30 V AC+DC @ 1.0 kHz	**29.999423**	0.0060 %	29.991595	30.008405	-0.0019 %	0.0220 %	PASS 6.86 %
30 V AC+DC @ 10.0 kHz	**29.998869**	0.0060 %	29.991595	30.008405	-0.0038 %	0.0220 %	PASS 13.46 %
30 V AC+DC @ 20.0 kHz	**29.999321**	0.0060 %	29.991595	30.008405	-0.0023 %	0.0220 %	PASS 8.08 %
30 V AC+DC @ 50.0 kHz	**29.999579**	0.0060 %	29.987095	30.012905	-0.0014 %	0.0370 %	PASS 3.26 %
30 V AC+DC @ 100.0 kHz	**29.996228**	0.0174 %	29.958191	30.041809	-0.0126 %	0.1220 %	PASS 9.02 %
30 V AC+DC @ 300.0 kHz	**30.033384**	0.0991 %	29.847273	30.152727	0.1113 %	0.4100 %	PASS 21.86 %
30 V AC+DC @ 500.0 kHz	**30.215503**	0.5200 %	29.391000	30.609000	0.7183 %	1.5100 %	PASS 35.39 %
100.0 V AC+DC @ 10 Hz	**100.00237**	0.0060 %	99.969982	100.030018	0.0024 %	0.0240 %	PASS 7.87 %
100.0 V AC+DC @ 20 Hz	**99.999822**	0.0060 %	99.969982	100.030018	-0.0002 %	0.0240 %	PASS 0.59 %
100.0 V AC+DC @ 40 Hz	**99.999249**	0.0060 %	99.969982	100.030018	-0.0008 %	0.0240 %	PASS 2.50 %
100.0 V AC+DC @ 100 Hz	**99.998908**	0.0060 %	99.971982	100.028018	-0.0011 %	0.0220 %	PASS 3.90 %
100.0 V AC+DC @ 1.0 kHz	**99.997669**	0.0060 %	99.971982	100.028018	-0.0023 %	0.0220 %	PASS 8.32 %
100.0 V AC+DC @ 10.0 kHz	**99.996766**	0.0060 %	99.971982	100.028018	-0.0032 %	0.0220 %	PASS 11.54 %
100.0 V AC+DC @ 20.0 kHz	**99.997713**	0.0060 %	99.971982	100.028018	-0.0023 %	0.0220 %	PASS 8.16 %
100.0 V AC+DC @ 50.0 kHz	**99.997222**	0.0095 %	99.953455	100.046545	-0.0028 %	0.0370 %	PASS 5.97 %
100.0 V AC+DC @ 100.0 kHz	**99.982595**	0.0174 %	99.860636	100.139364	-0.0174 %	0.1220 %	PASS 12.49 %
300.0 V AC+DC @ 100 Hz	**299.97562**	0.0079 %	299.850408	300.149592	-0.0081 %	0.0420 %	PASS 16.18 %
300.0 V AC+DC @ 1.0 kHz	**299.9761**	0.0079 %	299.850408	300.149592	-0.0080 %	0.0420 %	PASS 15.86 %
300.0 V AC+DC @ 10.0 kHz	**149.96834**	0.0079 %	299.790408	300.209592	-50.0106 %	0.0620 %	FAIL 71215.76 %
300.0 V AC+DC @ 20.0 kHz	**149.96626**	0.0110 %	299.780865	300.219135	-50.0112 %	0.0620 %	FAIL 68130.57 %
300.0 V AC+DC @ 50.0 kHz	**149.9944**	0.0110 %	299.600865	300.399135	-50.0019 %	0.1220 %	FAIL 37481.25 %
750.0 V AC+DC @ 100 Hz	**749.8572**	0.0245 %	749.501498	750.498502	-0.0190 %	0.0420 %	PASS 28.26 %
750.0 V AC+DC @ 1.0 kHz	**749.84848**	0.0660 %	749.190000	750.810000	-0.0202 %	0.0420 %	PASS 18.55 %
750.0 V AC+DC @ 10.0 kHz	**749.84606**	0.0079 %	749.476020	750.523980	-0.0205 %	0.0620 %	PASS 29.00 %
750.0 V AC+DC @ 20.0 kHz	**749.84223**	0.0079 %	749.476020	750.523980	-0.0210 %	0.0620 %	PASS 29.73 %

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	100nA-1A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
Zero µADC	0	**-5.9209247E-11**						INFO
50 nADC	5E-08	**4.9954151E-08**						INFO
100 nADC	1E-07	**9.9963566E-08**	71.82 ppm	9.995182E-08	1.000482E-07	-364.337 ppm	410 ppm	PASS 75.62 %
-100 nADC	-1E-07	**-1.0003094E-07**	71.82 ppm	-1.000482E-07	-9.995182E-08	309.369 ppm	410 ppm	PASS 64.21 %
-50 nADC	-5E-08	**-5.0045905E-08**						INFO
Zero µADC	0	**2.8601009E-12**						INFO
0.5 µADC	5E-07	**4.9998237E-07**	71.82 ppm	4.999391E-07	5.000609E-07	-35.257 ppm	50 ppm	PASS 28.94 %
1.0 µADC	1E-06	**9.9998558E-07**	71.82 ppm	9.998782E-07	1.000122E-06	-14.419 ppm	50 ppm	PASS 11.84 %
-1.0 µADC	-1E-06	**-9.9997983E-07**	71.82 ppm	-1.000122E-06	-9.998782E-07	-20.167 ppm	50 ppm	PASS 16.55 %
-0.5 µADC	-5E-07	**-4.9998554E-07**	71.82 ppm	-5.000609E-07	-4.999391E-07	-28.918 ppm	50 ppm	PASS 23.74 %
Zero 00 µADC	0	**-1.8145679E-11**						INFO
5 µADC	5E-06	**4.9999937E-06**	71.82 ppm	4.999556E-06	5.000444E-06	-1.258 ppm	17 ppm	PASS 1.42 %
10 µADC	1E-05	**1.0000009E-05**	71.82 ppm	9.999112E-06	1.000089E-05	0.908 ppm	17 ppm	PASS 1.02 %
-10 µADC	-1E-05	**-9.9998963E-06**	71.82 ppm	-1.000089E-05	-9.999112E-06	-10.373 ppm	17 ppm	PASS 11.68 %
-5 µADC	-5E-06	**-4.9999067E-06**	71.82 ppm	-5.000444E-06	-4.999556E-06	-18.656 ppm	17 ppm	PASS 21.00 %
Zero 000 µADC	0	**4.2819289E-11**						INFO
50 µADC	5E-05	**4.9999913E-05**	71.82 ppm	4.999561E-05	5.000439E-05	-1.744 ppm	16 ppm	PASS 1.99 %
100 µADC	0.0001	**9.9999685E-05**	71.82 ppm	9.999122E-05	0.0001000088	-3.150 ppm	16 ppm	PASS 3.59 %
-100 µADC	-0.0001	**-9.9999447E-05**	71.82 ppm	-0.0001000088	-9.999122E-05	-5.527 ppm	16 ppm	PASS 6.29 %
-50 µADC	-5E-05	**-4.999963E-05**	71.82 ppm	-5.000439E-05	-4.999561E-05	-7.395 ppm	16 ppm	PASS 8.42 %
Zero mADC	0	**7.2448903E-11**						INFO
0.5 mADC	0.0005	**0.0005000003**	33.64 ppm	0.0004999762	0.0005000238	0.596 ppm	14 ppm	PASS 1.25 %
1.0 mADC	0.001	**0.001**	33.64 ppm	0.0009999524	0.001000048	0.030 ppm	14 ppm	PASS 0.06 %
-1.0 mADC	-0.001	**-0.00099999791**	33.64 ppm	-0.001000048	-0.0009999524	-2.093 ppm	14 ppm	PASS 4.39 %
-0.5 mADC	-0.0005	**-0.0004999983**	33.64 ppm	-0.0005000238	-0.0004999762	-3.403 ppm	14 ppm	PASS 7.14 %
Zero 00 mADC	0	**4.996148E-11**						INFO
5 mADC	0.005	**0.0049999919**	32.27 ppm	0.004999769	0.005000231	-1.618 ppm	14 ppm	PASS 3.50 %
10 mADC	0.01	**0.010000003**	32.27 ppm	0.009999537	0.01000046	0.337 ppm	14 ppm	PASS 0.73 %
-10 mADC	-0.01	**-0.010000029**	32.27 ppm	-0.01000046	-0.009999537	2.894 ppm	14 ppm	PASS 6.25 %
-5 mADC	-0.005	**-0.0050000181**	32.27 ppm	-0.005000231	-0.004999769	3.628 ppm	14 ppm	PASS 7.84 %
Zero 000 mADC	0	**6.8774624E-11**						INFO
50 mADC	0.05	**0.050000663**	53.32 ppm	0.04999588	0.05000412	13.252 ppm	29 ppm	PASS 16.10 %
100 mADC	0.1	**0.10000261**	53.32 ppm	0.09999177	0.1000082	26.120 ppm	29 ppm	PASS 31.73 %
-100 mADC	-0.1	**-0.10000352**	53.32 ppm	-0.1000082	-0.09999177	35.152 ppm	29 ppm	PASS 42.70 %
-50 mADC	-0.05	**-0.050001619**	53.32 ppm	-0.05000412	-0.04999588	32.382 ppm	29 ppm	PASS 39.34 %
Zero ADC	0	**1.7232672E-10**						INFO
0.5 ADC	0.5	**0.50002402**	115.22 ppm	0.4998874	0.5001126	48.033 ppm	110 ppm	PASS 21.33 %
1.0 ADC	1	**1.0000608**	115.22 ppm	0.9997748	1.000225	60.799 ppm	110 ppm	PASS 27.00 %
-1.0 ADC	-1	**-1.000054**	115.22 ppm	-1.000225	-0.9997748	54.023 ppm	110 ppm	PASS 23.99 %
-0.5 ADC	-0.5	**-0.50003406**	115.22 ppm	-0.5001126	-0.4998874	68.124 ppm	110 ppm	PASS 30.25 %

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	200µA-2A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result, % spec
10 µA AC @ 50 Hz	1e-05	**1.0026176E-05**	0.0160 %	9.9893955e-06	1.00106045e-05	2617.600 ppm	0.0900 %	INFO
100 µA AC @ 50 Hz	0.0001	**0.00010001329**	0.0160 %	9.9893955e-05	0.000100106045	132.878 ppm	0.0900 %	PASS 12.53 %
1.0 mA AC @ 50 Hz	0.001	**0.00099994275**	0.0160 %	0.00099903955	0.00100096045	-57.254 ppm	0.0800 %	PASS 5.96 %
10 mA AC @ 50 Hz	0.01	**0.0099994309**	0.0160 %	0.0099903955	0.0100096045	-56.911 ppm	0.0800 %	PASS 5.93 %
100 mA AC @ 50 Hz	0.1	**0.099999435**	0.0133 %	0.099906682	0.100093318	-5.650 ppm	0.0800 %	PASS 0.61 %
1.0 A AC @ 50 Hz	1.0	**1.0002362**	0.0133 %	0.99886682	1.00113318	0.0236 %	0.1000 %	PASS 20.84 %
10 µA AC @ 60 Hz	1e-05	**1.0026484E-05**	0.0133 %	9.9896682e-06	1.00103318e-05	2648.383 ppm	0.0900 %	INFO
100 µA AC @ 60 Hz	0.0001	**0.00010001698**	0.0133 %	9.9896682e-05	0.000100103318	169.847 ppm	0.0900 %	PASS 16.44 %
1.0 mA AC @ 60 Hz	0.001	**0.00099997088**	0.0129 %	0.00099907136	0.00100092864	-29.125 ppm	0.0800 %	PASS 3.14 %
10 mA AC @ 60 Hz	0.01	**0.0099996669**	0.0129 %	0.0099907136	0.0100092864	-33.306 ppm	0.0800 %	PASS 3.59 %
100 mA AC @ 60 Hz	0.1	**0.10000076**	0.0288 %	0.099891182	0.100108818	7.601 ppm	0.0800 %	PASS 0.70 %
1.0 A AC @ 60 Hz	1.0	**1.0002493**	0.0288 %	0.99871182	1.00128818	0.0249 %	0.1000 %	PASS 19.35 %
10 µA AC @ 1.0 kHz	1e-05	**1.002493E-05**	0.0160 %	9.9893955e-06	1.00106045e-05	2493.028 ppm	0.0900 %	INFO
100 µA AC @ 1.0 kHz	0.0001	**9.9983036E-05**	0.0160 %	9.9893955e-05	0.000100106045	-169.637 ppm	0.0900 %	PASS 16.00 %
1.0 mA AC @ 1.0 kHz	0.001	**0.0010000001**	0.0160 %	0.00099933955	0.00100066045	0.085 ppm	0.0500 %	PASS 0.01 %
10 mA AC @ 1.0 kHz	0.01	**0.01000002**	0.0160 %	0.0099933955	0.0100066045	2.005 ppm	0.0500 %	PASS 0.30 %
100 mA AC @ 1.0 kHz	0.1	**0.099989225**	0.0133 %	0.099936682	0.100063318	-107.754 ppm	0.0500 %	PASS 17.02 %
1.0 A AC @ 1.0 kHz	1.0	**1.0002052**	0.0133 %	0.99866682	1.00133318	0.0205 %	0.1200 %	PASS 15.39 %

Test completed

Test date	11 March 2019 22:36
UUT Internal TEMP?	38.3
Destructive overloads?	77, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated