

Manufacturer	HEWLETT-PACKARD	Calibration date	March 07 2019
Model Number	3458A	Ambient Temperature	25.65 °C
Serial	N/A	Relative Humidity	44.40 %
ID Number	MM3458-3	Pressure	1025.50
Notes	Test front ports	Test type	5700B

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	1.0 days ago	MFC since DCV ZERO	0.0 days ago
MFC since WBFLAT	0.0 days ago	MFC since WBGAIN	0.0 days ago
MFC Confidence level	<b>24h 95%</b>	MFC Calibrate date	2019-03-06 00:00:00
MFC Calibrate date Zero	2019-03-07 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	1988-10-01 00:00:00	CAL CONST 6.5V reference voltage	6.55013026055
CAL CONST 13V reference voltage	13.0979736088	CAL CONST 22V range positive zero	398.17794
CAL CONST 22V range negative zero	398.1774	CAL CONST DAC Linearity	-0.306704359243
CAL CONST 10KOHM true output resistance	10000.3967818	CAL CONST 10KOHM standard resistance	10000.1317094
CAL CONST, Zero calibration temperature	25.0	CAL CONST, All calibration temp	25.0

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	07 March 2019 23:27
DUT Internal TEMP?	37.7	DUT Calibrations number?	62
Self-test result?	0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"
Firmware	9,1	Options	1,0
CAL? 72	0.988089721	CAL? 1,1	40000.5451
CAL? 2,1	7.09585414	CAL? Res 73	0.987477383
CAL 0 TEMP	39.39	CAL 10V TEMP	39.58
CAL 10KOhm TEMP	39.07	CAL? DCI	0.986672342

Service information

CAL DUMP

[(1, 40000.5451), (1, 7.09585414), (1, -1.61334526e-07), (1, 1.77714951e-07), (1, -1.8757452e-07), (1, 2.09718734e-07), (1, 3.30186391e-07), (1, 7.83554275e-07), (1, -8.30060875e-05), (1, -8.30060875e-05), (1, -6.04657391e-05), (1, -6.04657391e-05), (1, 0.398471411), (1, 0.398309083), (1, 0.398128473), (1, 0.396539037), (1, 0.40370988), (1, 0.529670605), (1, 0.792829539), (1, 0.864904952), (1, 0.864904952), (1, 0.576997537), (1, 0.577134115), (1, 0.577039794), (1, 0.57917848), (1, 0.590868744), (1, 0.637766647), (1, 1.1171689), (1, 1.83792302), (1, 1.83792302), (1, 0.000338712866), (1, 0.00319995756), (1, 0.00343804977), (1, 0.0347655305), (1, 0.0733002861), (1, 0.655782654), (1, 7.31565438), (1, 7.27961668), (1, 7.27961668), (1, 0.000184742407), (1, 0.00183052719), (1, 0.00198794961), (1, 0.0204553958), (1, 0.0465375772), (1, 0.446796973), (1, 3.45961981), (1, 4.93716577), (1, 4.93716577), (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, 0.0), (1, 39.3942711), (1, 39.5756928), (1, 39.0665399), (1, 176.0), (1, -4.46913473e-12), (1, 3.86867357e-12), (1, 3.51895639e-11), (1, 2.92517689e-10), (1, 2.3815672e-09), (1, 2.41555229e-08), (1, 2.81260793e-07), (1, 3.4180426e-06), (1, 0.986816457), (1, 0.987492496), (1, 0.988089721), (1, 0.987477383), (1, 0.988074599), (1, 1.00203761), (1, 1.00198501), (1, 1.00267144), (1, 1.00212264), (1, 1.00239942), (1, 1.00273942), (1, 1.00289783), (1, 1.00289783), (1, 1.00289783), (1, 1.00203762), (1, 1.00198504), (1, 1.00267147), (1, 1.00212292), (1, 1.00240014), (1, 1.00273942), (1, 1.00289783), (1, 1.00289783), (1, 1.00289783), (1, 0.986672342), (1, 0.986879127), (1, 0.98693649), (1, 0.988384203), (1, 0.986467446), (1, 0.986327304), (1, 0.983665479), (1, 0.972354735), (1, 76.0), (1, 111.0), (1, 5.00965677), (1, 3.53479143e-11), (1, -8.14623425e-12), (1, 10001254.1), (1, -0.00698360392), (1, -0.00576746525), (1, 0.99999967), (1, 1.00000001), (1, 1666.98435), (1, 1666.9794), (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, 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, 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, 3348.0), (1, 37.6808004), (1, 37.7393274), (1, 37.7555599), (1, 136.0), (1, 137.0), (1, 134.0), (1, 131.0), (1, 137.0), (1, 138.0), (1, 130.0), (1, 131.0), (1, 133.0), (1, 131.0), (1, 137.0), (1, 138.0), (1, 137.0), (1, 137.0), (1, 137.0), (1, 137.0), (1, 137.0), (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, -0.00166195128), (1, -0.0189449413), (1, -0.187343782), (1, -1.86980091), (1, -18.3404077), (1, -184.388321), (1, -0.00180722027), (1, -0.0191700271), (1, -0.186198149), (1, -1.87307959), (1, -18.365078), (1, -184.461934), (1, 0.994109989), (1, 1.00099727), (1, 0.984383844), (1, 0.981890816), (1, 0.973247983), (1, 0.972192423), (1, 102433.366), (1, 10.3716775), (1, 0.982175215), (1, 0.989061485), (1, 0.972646159), (1, 0.970182858), (1, 0.961643081), (1, 0.960600107), (1, 3.63423568e-06), (1, 3.74318362e-05), (1, 0.000374318362), (1, 0.00374318362), (1, 0.0374318362), (1, 0.374318362), (1, 1.02732144), (1, 1.00020758), (1, 0.999835289), (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?

53, DESTRUCTIVE OVERLOADS valid 2941

Reference

Direct MFC test, pre-cal verification

DUT Condition

Test of 5700B

Test procedure : \$Id: hp3458a.py | Rev 1093 | 2018/12/21 07:21:45 tin\_fpga \$

Source procedure : \$Id: f5700a.py | Rev 1186 | 2019/03/08 00:14:08 MM \$

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	0.000000E+00	<b>0.36 µV</b>	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	PASS
Short 0.0 VDC	0.000000E+00	<b>0.42 µV</b>	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	PASS
Short 00.0 VDC	0.000000E+00	<b>0.30 µV</b>	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	PASS
Short 000.0 VDC	0.000000E+00	<b>7.22 µV</b>	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	PASS
Short 0000.0 VDC	0.000000E+00	<b>0.00 µV</b>	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	<b>0.099999474</b>	7.27 ppm	0.099998723	0.10000128	-5.255 ppm	5.50 ppm	PASS 41.15 %
-0.1 VDC (0.10 Range)	-0.1000000	<b>-0.099999515</b>	7.27 ppm	-0.10000128	-0.099998723	-4.847 ppm	5.50 ppm	PASS 37.96 %
0.1 VDC (1.00 Range)	0.1000000	<b>0.099999492</b>	7.27 ppm	0.099999093	0.10000091	-5.077 ppm	1.80 ppm	PASS 55.97 %
0.2 VDC (1.00 Range)	0.2000000	<b>0.19999909</b>	3.86 ppm	0.19999887	0.20000113	-4.555 ppm	1.80 ppm	PASS 80.48 %
1.0 VDC (1.00 Range)	1.0000000	<b>1.0000013</b>	3.86 ppm	0.99999434	1.0000057	1.286 ppm	1.80 ppm	PASS 22.72 %
-0.1 VDC (1.00 Range)	-0.1000000	<b>-0.099999504</b>	7.27 ppm	-0.10000091	-0.099999093	-4.961 ppm	1.80 ppm	PASS 54.69 %
-0.2 VDC (1.00 Range)	-0.2000000	<b>-0.19999909</b>	3.86 ppm	-0.20000113	-0.19999887	-4.572 ppm	1.80 ppm	PASS 80.77 %
-1.0 VDC (1.00 Range)	-1.0000000	<b>-1.0000003</b>	3.86 ppm	-1.0000057	-0.99999434	0.254 ppm	1.80 ppm	PASS 4.50 %
1.0 VDC (10.00 Range)	1.0000000	<b>1.0000008</b>	3.86 ppm	0.99999559	1.0000044	0.793 ppm	0.55 ppm	PASS 17.98 %
2.0 VDC (10.00 Range)	2.0000000	<b>2.0000016</b>	2.77 ppm	1.9999934	2.0000066	0.787 ppm	0.55 ppm	PASS 23.70 %
10.0 VDC (10.00 Range)	10.0000000	<b>9.9999976</b>	2.73 ppm	9.9999672	10.000033	-0.242 ppm	0.55 ppm	PASS 7.38 %
-1.0 VDC (10.00 Range)	-1.0000000	<b>-1.0000003</b>	3.86 ppm	-1.0000044	-0.99999559	0.311 ppm	0.55 ppm	PASS 7.05 %
-2.0 VDC (10.00 Range)	-2.0000000	<b>-2.0000003</b>	2.77 ppm	-2.0000066	-1.9999934	0.127 ppm	0.55 ppm	PASS 3.84 %
-10.0 VDC (10.00 Range)	-10.0000000	<b>-9.9999911</b>	2.73 ppm	-10.000033	-9.9999672	-0.887 ppm	0.55 ppm	PASS 27.06 %
10 VDC (100.00 Range)	10.0000000	<b>10.000003</b>	2.77 ppm	9.9999443	10.000056	2.957 ppm	2.80 ppm	PASS 53.09 %
20 VDC (100.00 Range)	20.0000000	<b>20.000023</b>	3.73 ppm	19.999869	20.000131	1.126 ppm	2.80 ppm	PASS 17.25 %
100 VDC (100.00 Range)	100.0000000	<b>100.00011</b>	3.73 ppm	99.999347	100.00065	1.063 ppm	2.80 ppm	PASS 16.28 %
-10 VDC (100.00 Range)	-10.0000000	<b>-9.9999717</b>	2.77 ppm	-10.000056	-9.9999443	-2.834 ppm	2.80 ppm	PASS 50.88 %
-20 VDC (100.00 Range)	-20.0000000	<b>-19.999975</b>	3.73 ppm	-20.000131	-19.999869	-1.272 ppm	2.80 ppm	PASS 19.48 %
-100 VDC (100.00 Range)	-100.0000000	<b>-100.00009</b>	3.73 ppm	-100.00065	-99.999347	0.862 ppm	2.80 ppm	PASS 13.19 %
100 VDC (1000.00 Range)	100.0000000	<b>100.00009</b>	3.73 ppm	99.999367	100.00063	0.915 ppm	2.60 ppm	PASS 14.45 %
200 VDC (1000.00 Range)	200.0000000	<b>200.00005</b>	3.73 ppm	199.99873	200.00127	0.228 ppm	2.60 ppm	PASS 3.61 %
1000 VDC (1000.00 Range)	1000.0000000	<b>1000.0004</b>	5.45 ppm	999.97995	1000.02	0.363 ppm	2.60 ppm	PASS 1.81 %
-100 VDC (1000.00 Range)	-100.0000000	<b>-100.00011</b>	3.73 ppm	-100.00063	-99.999367	1.074 ppm	2.60 ppm	PASS 16.96 %
-200 VDC (1000.00 Range)	-200.0000000	<b>-200.00009</b>	3.73 ppm	-200.00127	-199.99873	0.475 ppm	2.60 ppm	PASS 7.50 %
-1000 VDC (1000.00 Range)	-1000.0000000	<b>-1000.0011</b>	5.45 ppm	-1000.02	-999.97995	1.058 ppm	2.60 ppm	PASS 26.78 %

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	0.9999198	<b>0.99990224</b>	32.0 ppm	9.9987980E-01	9.9995980E-01	-17.559 ppm	8.0 ppm	PASS 43.90 %
1.9 Ω	1.8998043	<b>1.899836</b>	25.0 ppm	1.8997416E+00	1.8998670E+00	16.671 ppm	8.0 ppm	PASS 50.52 %
10 Ω	9.999089	<b>9.9990178</b>	5.0 ppm	9.9989590E+00	9.9992190E+00	-7.119 ppm	8.0 ppm	PASS 54.76 %
19 Ω	18.999481	<b>18.999398</b>	4.0 ppm	1.8999291E+01	1.8999671E+01	-4.378 ppm	6.0 ppm	PASS 43.78 %
100 Ω	99.99625	<b>99.996126</b>	1.7 ppm	9.9995480E+01	9.9997020E+01	-1.238 ppm	6.0 ppm	PASS 16.07 %
190 Ω	189.99771	<b>189.99756</b>	1.7 ppm	1.8999697E+02	1.8999845E+02	-0.765 ppm	2.2 ppm	PASS 19.61 %
1.0 kΩ	999.9961	<b>999.99442</b>	1.7 ppm	9.9999220E+02	1.0000000E+03	-1.682 ppm	2.2 ppm	PASS 43.12 %
1.9 kΩ	1899.9985	<b>1899.9957</b>	1.7 ppm	1.8999911E+03	1.9000059E+03	-1.458 ppm	2.2 ppm	PASS 37.40 %
10 kΩ	10000.401	<b>10000.371</b>	1.6 ppm	1.0000363E+04	1.0000439E+04	-2.974 ppm	2.2 ppm	PASS 78.27 %
19 kΩ	18999.389	<b>18999.328</b>	1.7 ppm	1.8999315E+04	1.8999463E+04	-3.220 ppm	2.2 ppm	PASS 82.55 %
100 kΩ	100002.57	<b>100001.62</b>	2.0 ppm	1.0000215E+05	1.0000299E+05	-9.503 ppm	2.2 ppm	FAIL 226.27 %
190 kΩ	189997.06	<b>189996.24</b>	2.0 ppm	1.8999459E+05	1.8999953E+05	-4.301 ppm	11.0 ppm	PASS 33.08 %
1.0 MΩ	1000007	<b>999997.64</b>	2.5 ppm	9.9999350E+05	1.0000205E+06	-9.358 ppm	11.0 ppm	PASS 69.32 %
1.9 MΩ	1899944.4	<b>1899904.9</b>	3.0 ppm	1.8998342E+06	1.9000546E+06	-20.803 ppm	55.0 ppm	PASS 35.87 %
10 MΩ	9999616	<b>9999200.2</b>	10.0 ppm	9.9989660E+06	1.0000266E+07	-41.578 ppm	55.0 ppm	PASS 63.97 %
19 MΩ	18998199	<b>18998507</b>	20.0 ppm	1.8988130E+07	1.9008268E+07	16.228 ppm	510.0 ppm	PASS 3.06 %
100 MΩ	1.0000711E+08	<b>1.00018E+08</b>	50.0 ppm	9.9951106E+07	1.0006311E+08	108.920 ppm	510.0 ppm	PASS 19.45 %

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 -0.0000028 Ω	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	Range -0.0000351 Ω	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.0000180 Ω	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range -0.0000540 Ω	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range -0.0036020 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.0252224 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 0.0000000 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 0.1081131 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 0.0000000 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 0.2387091 Ω	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	Range 0.2384715 Ω	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.2382635 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range 0.2400776 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.2226025 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.3134782 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 1.9460352 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 1.0090554 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 1.0811308 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	<b>0.99968079</b>	129.09	0.99955091	1.00044909	VAC	-319.205 ppm	320.0 ppm	PASS 71.08 %
1.0 VAC @ 1.0 MHz	1.0	<b>1.0026007</b>	0.2500 %	0.9874	1.0126	VAC	0.2601 %	1.0100 %	PASS 20.64 %
10 VAC @ 40 Hz	10	<b>10.000632</b>	0.0073 %	9.8982682	10.1017318	VAC	0.0063 %	1.0100 %	PASS 0.62 %
10 VAC @ 200 Hz	10	<b>9.9997782</b>	73.18	9.9983682	10.0016318	VAC	-22.180 ppm	90.0 ppm	PASS 13.59 %
10 VAC @ 500 Hz	10	<b>9.9997557</b>	73.18	9.9983682	10.0016318	VAC	-24.432 ppm	90.0 ppm	PASS 14.97 %
10 VAC @ 50.0 kHz	10	<b>9.995303</b>	129.09	9.9955091	10.0044909	VAC	-469.697 ppm	320.0 ppm	FAIL 104.59 %
10 VAC @ 1.0 MHz	10	<b>10.013152</b>	0.3000 %	9.869	10.131	VAC	0.1315 %	1.0100 %	PASS 10.04 %

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	0.010000408	0.0312 %	0.009991	0.010009	0.0041 %	0.0600 %	PASS 4.48 %
0.01 V AC+DC @ 20 Hz	0.0099993373	0.0312 %	0.009991	0.010009	-0.0066 %	0.0600 %	PASS 7.26 %
0.01 V AC+DC @ 40 Hz	0.009999535	0.0312 %	0.009991	0.010009	-0.0046 %	0.0600 %	PASS 5.10 %
0.01 V AC+DC @ 100 Hz	0.009999619	0.0312 %	0.009994	0.010006	-0.0038 %	0.0310 %	PASS 6.12 %
0.01 V AC+DC @ 1.0 kHz	0.0099990669	0.0312 %	0.009994	0.010006	-0.0093 %	0.0310 %	PASS 15.00 %
0.01 V AC+DC @ 10.0 kHz	0.0099969054	0.0312 %	0.009993	0.010007	-0.0309 %	0.0410 %	PASS 42.85 %
0.01 V AC+DC @ 20.0 kHz	0.0099908744	0.0312 %	0.009993	0.010007	-0.0913 %	0.0410 %	FAIL 126.35 %
0.01 V AC+DC @ 50.0 kHz	0.0099899583	0.0447 %	0.009984	0.010016	-0.1004 %	0.1110 %	PASS 64.48 %
0.01 V AC+DC @ 100.0 kHz	0.0099476429	0.0773 %	0.009941	0.010059	-0.5236 %	0.5110 %	PASS 89.00 %
0.01 V AC+DC @ 300.0 kHz	0.009998099	0.1500 %	0.009583	0.010417	-0.0190 %	4.0200 %	PASS 0.46 %
0.01 V AC+DC @ 500.0 kHz	0.0093374069	0.2500 %	0.006770	0.013230	-6.6259 %	32.0500 %	PASS 20.51 %
0.01 V AC+DC @ 1.0 MHz	0.0077842134	0.4000 %	0.006755	0.013245	-22.1579 %	32.0500 %	PASS 68.28 %
0.03 V AC+DC @ 10 Hz	0.030004556	0.0121 %	0.029993	0.030007	0.0152 %	0.0110 %	PASS 65.65 %
0.03 V AC+DC @ 20 Hz	0.030002305	0.0121 %	0.029993	0.030007	0.0077 %	0.0110 %	PASS 33.20 %
0.03 V AC+DC @ 40 Hz	0.030002367	0.0121 %	0.029993	0.030007	0.0079 %	0.0110 %	PASS 34.11 %
0.03 V AC+DC @ 100 Hz	0.030002918	0.0121 %	0.029994	0.030006	0.0097 %	0.0090 %	PASS 46.02 %
0.03 V AC+DC @ 1.0 kHz	0.03000121	0.0121 %	0.029994	0.030006	0.0040 %	0.0090 %	PASS 19.08 %
0.03 V AC+DC @ 10.0 kHz	0.030001445	0.0121 %	0.029992	0.030008	0.0048 %	0.0160 %	PASS 17.12 %
0.03 V AC+DC @ 20.0 kHz	0.029999803	0.0121 %	0.029992	0.030008	-0.0007 %	0.0160 %	PASS 2.33 %
0.03 V AC+DC @ 50.0 kHz	0.029999492	0.0256 %	0.029983	0.030017	-0.0017 %	0.0320 %	PASS 2.94 %
0.03 V AC+DC @ 100.0 kHz	0.029985502	0.0591 %	0.029958	0.030042	-0.0483 %	0.0820 %	PASS 34.25 %
0.03 V AC+DC @ 300.0 kHz	0.029816666	0.0964 %	0.029878	0.030122	-0.6111 %	0.3100 %	FAIL 150.39 %
0.03 V AC+DC @ 500.0 kHz	0.029930554	0.1500 %	0.029652	0.030348	-0.2315 %	1.0100 %	PASS 19.96 %
0.03 V AC+DC @ 1.0 MHz	0.029925967	0.3000 %	0.029607	0.030393	-0.2468 %	1.0100 %	PASS 18.84 %
0.1 V AC+DC @ 10 Hz	0.10000348	0.0121 %	0.099977	0.100023	0.0035 %	0.0110 %	PASS 15.02 %
0.1 V AC+DC @ 20 Hz	0.099997204	0.0121 %	0.099977	0.100023	-0.0028 %	0.0110 %	PASS 12.09 %
0.1 V AC+DC @ 40 Hz	0.099995245	0.0121 %	0.099977	0.100023	-0.0048 %	0.0110 %	PASS 20.55 %
0.1 V AC+DC @ 100 Hz	0.099995631	0.0121 %	0.099979	0.100021	-0.0044 %	0.0090 %	PASS 20.67 %
0.1 V AC+DC @ 1.0 kHz	0.099992749	0.0121 %	0.099979	0.100021	-0.0073 %	0.0090 %	PASS 34.31 %
0.1 V AC+DC @ 10.0 kHz	0.099990435	0.0121 %	0.099972	0.100028	-0.0096 %	0.0160 %	PASS 33.99 %
0.1 V AC+DC @ 20.0 kHz	0.09998744	0.0121 %	0.099972	0.100028	-0.0126 %	0.0160 %	PASS 44.64 %
0.1 V AC+DC @ 50.0 kHz	0.099990997	0.0256 %	0.099942	0.100058	-0.0090 %	0.0320 %	PASS 15.62 %
0.1 V AC+DC @ 100.0 kHz	0.09995472	0.0591 %	0.099859	0.100141	-0.0453 %	0.0820 %	PASS 32.09 %
0.1 V AC+DC @ 300.0 kHz	0.099096929	0.0964 %	0.099594	0.100406	-0.9031 %	0.3100 %	FAIL 222.23 %
0.1 V AC+DC @ 500.0 kHz	0.099759012	0.1500 %	0.098840	0.101160	-0.2410 %	1.0100 %	PASS 20.77 %
0.1 V AC+DC @ 1.0 MHz	0.099741683	0.3000 %	0.098690	0.101310	-0.2583 %	1.0100 %	PASS 19.72 %
0.3 V AC+DC @ 10 Hz	0.30002379	0.0050 %	0.299952	0.300048	0.0079 %	0.0110 %	PASS 49.71 %
0.3 V AC+DC @ 20 Hz	0.3000087	0.0050 %	0.299952	0.300048	0.0029 %	0.0110 %	PASS 18.17 %
0.3 V AC+DC @ 40 Hz	0.30000605	0.0050 %	0.299952	0.300048	0.0020 %	0.0110 %	PASS 12.63 %
0.3 V AC+DC @ 100 Hz	0.30000592	0.0050 %	0.299958	0.300042	0.0020 %	0.0090 %	PASS 14.13 %
0.3 V AC+DC @ 1.0 kHz	0.30000288	0.0050 %	0.299958	0.300042	0.0010 %	0.0090 %	PASS 6.88 %
0.3 V AC+DC @ 10.0 kHz	0.30000159	0.0050 %	0.299937	0.300063	0.0005 %	0.0160 %	PASS 2.54 %
0.3 V AC+DC @ 20.0 kHz	0.30000028	0.0050 %	0.299937	0.300063	0.0001 %	0.0160 %	PASS 0.45 %
0.3 V AC+DC @ 50.0 kHz	0.30003648	0.0085 %	0.299878	0.300122	0.0122 %	0.0320 %	PASS 29.99 %
0.3 V AC+DC @ 100.0 kHz	0.30010929	0.0138 %	0.299713	0.300287	0.0364 %	0.0820 %	PASS 38.02 %
0.3 V AC+DC @ 300.0 kHz	0.30044636	0.0425 %	0.298942	0.301058	0.1488 %	0.3100 %	PASS 42.20 %
0.3 V AC+DC @ 500.0 kHz	0.30088482	0.1100 %	0.296640	0.303360	0.2949 %	1.0100 %	PASS 26.33 %
0.3 V AC+DC @ 1.0 MHz	0.30161628	0.1800 %	0.296430	0.303570	0.5388 %	1.0100 %	PASS 45.27 %
1.0 V AC+DC @ 10 Hz	1.0000796	0.0050 %	0.999840	1.000160	0.0080 %	0.0110 %	PASS 49.92 %
1.0 V AC+DC @ 20 Hz	1.0000239	0.0050 %	0.999840	1.000160	0.0024 %	0.0110 %	PASS 14.96 %
1.0 V AC+DC @ 40 Hz	1.00001	0.0050 %	0.999840	1.000160	0.0010 %	0.0110 %	PASS 6.26 %
1.0 V AC+DC @ 100 Hz	1.0000064	0.0050 %	0.999860	1.000140	0.0006 %	0.0090 %	PASS 4.56 %
1.0 V AC+DC @ 1.0 kHz	0.9999937	0.0050 %	0.999860	1.000140	-0.0006 %	0.0090 %	PASS 4.51 %
1.0 V AC+DC @ 10.0 kHz	0.9999709	0.0050 %	0.999790	1.000210	-0.0029 %	0.0160 %	PASS 13.89 %
1.0 V AC+DC @ 20.0 kHz	0.99998978	0.0050 %	0.999790	1.000210	-0.0010 %	0.0160 %	PASS 4.88 %
1.0 V AC+DC @ 50.0 kHz	1.0000954	0.0085 %	0.999595	1.000405	0.0095 %	0.0320 %	PASS 23.52 %
1.0 V AC+DC @ 100.0 kHz	1.000285	0.0138 %	0.999042	1.000958	0.0285 %	0.0820 %	PASS 29.74 %
1.0 V AC+DC @ 300.0 kHz	1.001492	0.0425 %	0.996475	1.003525	0.1492 %	0.3100 %	PASS 42.32 %
1.0 V AC+DC @ 500.0 kHz	1.0029342	0.1100 %	0.988800	1.011200	0.2934 %	1.0100 %	PASS 26.20 %
1.0 V AC+DC @ 1.0 MHz	1.006838	0.1800 %	0.988100	1.011900	0.6838 %	1.0100 %	PASS 57.46 %
3.0 V AC+DC @ 10 Hz	3.0002391	0.0048 %	2.999525	3.000475	0.0080 %	0.0110 %	PASS 50.38 %
3.0 V AC+DC @ 20 Hz	3.0000956	0.0048 %	2.999525	3.000475	0.0032 %	0.0110 %	PASS 20.14 %
3.0 V AC+DC @ 40 Hz	3.0000523	0.0048 %	2.999525	3.000475	0.0017 %	0.0110 %	PASS 11.03 %
3.0 V AC+DC @ 100 Hz	3.0000396	0.0048 %	2.999585	3.000415	0.0013 %	0.0090 %	PASS 9.55 %
3.0 V AC+DC @ 1.0 kHz	2.9999948	0.0048 %	2.999585	3.000415	-0.0002 %	0.0090 %	PASS 1.25 %
3.0 V AC+DC @ 10.0 kHz	2.9999567	0.0048 %	2.999375	3.000625	-0.0014 %	0.0160 %	PASS 6.93 %
3.0 V AC+DC @ 20.0 kHz	2.9999994	0.0048 %	2.999375	3.000625	-0.0000 %	0.0160 %	PASS 0.09 %
3.0 V AC+DC @ 50.0 kHz	2.9998154	0.0085 %	2.998784	3.001216	-0.0062 %	0.0320 %	PASS 15.18 %
3.0 V AC+DC @ 100.0 kHz	2.9991292	0.0121 %	2.997176	3.002824	-0.0290 %	0.0820 %	PASS 30.83 %
3.0 V AC+DC @ 300.0 kHz	2.9936945	0.0336 %	2.989691	3.010309	-0.2102 %	0.3100 %	PASS 61.16 %

3.0 V AC+DC @ 500.0 kHz	<b>2.9950818</b>	0.1100 %	2.966400	3.033600	-0.1639 %	1.0100 %	PASS 14.64 %
3.0 V AC+DC @ 1.0 MHz	<b>3.0136266</b>	0.1700 %	2.964600	3.035400	0.4542 %	1.0100 %	PASS 38.49 %
10.0 V AC+DC @ 10 Hz	<b>10.000768</b>	0.0048 %	9.998418	10.001582	0.0077 %	0.0110 %	PASS 48.55 %
10.0 V AC+DC @ 20 Hz	<b>10.000263</b>	0.0048 %	9.998418	10.001582	0.0026 %	0.0110 %	PASS 16.61 %
10.0 V AC+DC @ 40 Hz	<b>10.000115</b>	0.0048 %	9.998418	10.001582	0.0012 %	0.0110 %	PASS 7.28 %
10.0 V AC+DC @ 100 Hz	<b>10.000084</b>	0.0048 %	9.998618	10.001382	0.0008 %	0.0090 %	PASS 6.12 %
10.0 V AC+DC @ 1.0 kHz	<b>9.9999298</b>	0.0048 %	9.998618	10.001382	-0.0007 %	0.0090 %	PASS 5.08 %
10.0 V AC+DC @ 10.0 kHz	<b>9.999766</b>	0.0048 %	9.997918	10.002082	-0.0023 %	0.0160 %	PASS 11.24 %
10.0 V AC+DC @ 20.0 kHz	<b>9.9998541</b>	0.0048 %	9.997918	10.002082	-0.0015 %	0.0160 %	PASS 7.01 %
10.0 V AC+DC @ 50.0 kHz	<b>9.9991409</b>	0.0085 %	9.995945	10.004054	-0.0086 %	0.0320 %	PASS 21.19 %
10.0 V AC+DC @ 100.0 kHz	<b>9.9963239</b>	0.0121 %	9.990586	10.009414	-0.0368 %	0.0820 %	PASS 39.05 %
10.0 V AC+DC @ 300.0 kHz	<b>9.9791004</b>	0.0336 %	9.965636	10.034364	-0.2090 %	0.3100 %	PASS 60.82 %
10.0 V AC+DC @ 500.0 kHz	<b>9.9834624</b>	0.1100 %	9.888000	10.112000	-0.1654 %	1.0100 %	PASS 14.77 %
10.0 V AC+DC @ 1.0 MHz	<b>10.059126</b>	0.1700 %	9.882000	10.118000	0.5913 %	1.0100 %	PASS 50.11 %
30 V AC+DC @ 10 Hz	<b>30.002641</b>	0.0060 %	29.990995	30.009005	0.0088 %	0.0240 %	PASS 29.32 %
30 V AC+DC @ 20 Hz	<b>30.001308</b>	0.0060 %	29.990995	30.009005	0.0044 %	0.0240 %	PASS 14.53 %
30 V AC+DC @ 40 Hz	<b>30.001004</b>	0.0060 %	29.990995	30.009005	0.0033 %	0.0240 %	PASS 11.15 %
30 V AC+DC @ 100 Hz	<b>30.000852</b>	0.0060 %	29.991595	30.008405	0.0028 %	0.0220 %	PASS 10.13 %
30 V AC+DC @ 1.0 kHz	<b>30.000318</b>	0.0060 %	29.991595	30.008405	0.0011 %	0.0220 %	PASS 3.78 %
30 V AC+DC @ 10.0 kHz	<b>29.999228</b>	0.0060 %	29.991595	30.008405	-0.0026 %	0.0220 %	PASS 9.18 %
30 V AC+DC @ 20.0 kHz	<b>29.997772</b>	0.0060 %	29.991595	30.008405	-0.0074 %	0.0220 %	PASS 26.51 %
30 V AC+DC @ 50.0 kHz	<b>29.989834</b>	0.0060 %	29.987095	30.012905	-0.0339 %	0.0370 %	PASS 78.77 %
30 V AC+DC @ 100.0 kHz	<b>29.990333</b>	0.0174 %	29.958191	30.041809	-0.0322 %	0.1220 %	PASS 23.12 %
30 V AC+DC @ 300.0 kHz	<b>30.023326</b>	0.0991 %	29.847273	30.152727	0.0778 %	0.4100 %	PASS 15.27 %
30 V AC+DC @ 500.0 kHz	<b>30.175909</b>	0.5200 %	29.391000	30.609000	0.5864 %	1.5100 %	PASS 28.88 %
100.0 V AC+DC @ 10 Hz	<b>100.00921</b>	0.0060 %	99.969982	100.030018	0.0092 %	0.0240 %	PASS 30.56 %
100.0 V AC+DC @ 20 Hz	<b>100.0041</b>	0.0060 %	99.969982	100.030018	0.0041 %	0.0240 %	PASS 13.62 %
100.0 V AC+DC @ 40 Hz	<b>100.00296</b>	0.0060 %	99.969982	100.030018	0.0030 %	0.0240 %	PASS 9.84 %
100.0 V AC+DC @ 100 Hz	<b>100.00253</b>	0.0060 %	99.971982	100.028018	0.0025 %	0.0220 %	PASS 8.98 %
100.0 V AC+DC @ 1.0 kHz	<b>100.00089</b>	0.0060 %	99.971982	100.028018	0.0009 %	0.0220 %	PASS 3.15 %
100.0 V AC+DC @ 10.0 kHz	<b>99.997698</b>	0.0060 %	99.971982	100.028018	-0.0023 %	0.0220 %	PASS 8.22 %
100.0 V AC+DC @ 20.0 kHz	<b>99.992144</b>	0.0060 %	99.971982	100.028018	-0.0079 %	0.0220 %	PASS 28.04 %
100.0 V AC+DC @ 50.0 kHz	<b>99.964624</b>	0.0095 %	99.953455	100.046545	-0.0354 %	0.0370 %	PASS 76.00 %
100.0 V AC+DC @ 100.0 kHz	<b>99.962318</b>	0.0174 %	99.860636	100.139364	-0.0377 %	0.1220 %	PASS 27.04 %
300.0 V AC+DC @ 100 Hz	<b>299.97973</b>	0.0079 %	299.850408	300.149592	-0.0068 %	0.0420 %	PASS 13.46 %
300.0 V AC+DC @ 1.0 kHz	<b>299.97381</b>	0.0079 %	299.850408	300.149592	-0.0087 %	0.0420 %	PASS 17.38 %
300.0 V AC+DC @ 10.0 kHz	<b>149.92956</b>	0.0079 %	299.790408	300.209592	-50.0235 %	0.0620 %	FAIL 71234.17 %
300.0 V AC+DC @ 20.0 kHz	<b>149.81404</b>	0.0110 %	299.780865	300.219135	-50.0620 %	0.0620 %	FAIL 68199.69 %
300.0 V AC+DC @ 50.0 kHz	<b>149.44934</b>	0.0110 %	299.600865	300.399135	-50.1836 %	0.1220 %	FAIL 37617.44 %
750.0 V AC+DC @ 100 Hz	<b>749.86151</b>	0.0245 %	749.501498	750.498502	-0.0185 %	0.0420 %	PASS 27.41 %
750.0 V AC+DC @ 1.0 kHz	<b>749.84286</b>	0.0660 %	749.190000	750.810000	-0.0210 %	0.0420 %	PASS 19.24 %
750.0 V AC+DC @ 10.0 kHz	<b>749.84136</b>	0.0079 %	749.476020	750.523980	-0.0212 %	0.0620 %	PASS 29.89 %
750.0 V AC+DC @ 20.0 kHz	<b>749.84026</b>	0.0079 %	749.476020	750.523980	-0.0213 %	0.0620 %	PASS 30.10 %



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	1.5558095E-12						INFO
50 nADC	5E-08	5.0017009E-08						INFO
100 nADC	1E-07	9.999815E-08	71.82 ppm	9.995182E-08	1.000482E-07	-1.847 ppm	410 ppm	PASS 0.38 %
-100 nADC	-1E-07	-9.9999503E-08	71.82 ppm	-1.000482E-07	-9.995182E-08	-4.973 ppm	410 ppm	PASS 1.03 %
-50 nADC	-5E-08	-5.0011892E-08						INFO
Zero µADC	0	3.0995273E-11						INFO
0.5 µADC	5E-07	4.99998E-07	71.82 ppm	4.999391E-07	5.000609E-07	-3.994 ppm	50 ppm	PASS 3.28 %
1.0 µADC	1E-06	1.0000018E-06	71.82 ppm	9.998782E-07	1.000122E-06	1.848 ppm	50 ppm	PASS 1.52 %
-1.0 µADC	-1E-06	-1.0000057E-06	71.82 ppm	-1.000122E-06	-9.998782E-07	5.732 ppm	50 ppm	PASS 4.70 %
-0.5 µADC	-5E-07	-4.9999278E-07	71.82 ppm	-5.000609E-07	-4.999391E-07	-14.448 ppm	50 ppm	PASS 11.86 %
Zero 00 µADC	0	-5.8927293E-12						INFO
5 µADC	5E-06	4.9999884E-06	71.82 ppm	4.999556E-06	5.000444E-06	-2.316 ppm	17 ppm	PASS 2.61 %
10 µADC	1E-05	1.0000009E-05	71.82 ppm	9.999112E-06	1.000089E-05	0.919 ppm	17 ppm	PASS 1.04 %
-10 µADC	-1E-05	-9.9999665E-06	71.82 ppm	-1.000089E-05	-9.999112E-06	-3.353 ppm	17 ppm	PASS 3.78 %
-5 µADC	-5E-06	-5.0000093E-06	71.82 ppm	-5.000444E-06	-4.999556E-06	1.857 ppm	17 ppm	PASS 2.09 %
Zero 000 µADC	0	-5.1156307E-12						INFO
50 µADC	5E-05	5.000003E-05	71.82 ppm	4.999561E-05	5.000439E-05	0.609 ppm	16 ppm	PASS 0.69 %
100 µADC	0.0001	0.00010000001	71.82 ppm	9.999122E-05	0.0001000088	0.088 ppm	16 ppm	PASS 0.10 %
-100 µADC	-0.0001	-9.9999863E-05	71.82 ppm	-0.0001000088	-9.999122E-05	-1.372 ppm	16 ppm	PASS 1.56 %
-50 µADC	-5E-05	-4.9999959E-05	71.82 ppm	-5.000439E-05	-4.999561E-05	-0.820 ppm	16 ppm	PASS 0.93 %
Zero mADC	0	1.4556896E-11						INFO
0.5 mADC	0.0005	0.00050000128	33.64 ppm	0.0004999762	0.0005000238	2.569 ppm	14 ppm	PASS 5.39 %
1.0 mADC	0.001	0.0010000013	33.64 ppm	0.0009999524	0.001000048	1.342 ppm	14 ppm	PASS 2.82 %
-1.0 mADC	-0.001	-0.0010000005	33.64 ppm	-0.001000048	-0.0009999524	0.508 ppm	14 ppm	PASS 1.07 %
-0.5 mADC	-0.0005	-0.00050000016	33.64 ppm	-0.0005000238	-0.0004999762	0.328 ppm	14 ppm	PASS 0.69 %
Zero 00 mADC	0	5.1027328E-12						INFO
5 mADC	0.005	0.0049999856	32.27 ppm	0.004999769	0.005000231	-2.882 ppm	14 ppm	PASS 6.23 %
10 mADC	0.01	0.0099999862	32.27 ppm	0.009999537	0.01000046	-1.377 ppm	14 ppm	PASS 2.98 %
-10 mADC	-0.01	-0.010000001	32.27 ppm	-0.01000046	-0.009999537	0.060 ppm	14 ppm	PASS 0.13 %
-5 mADC	-0.005	-0.0050000054	32.27 ppm	-0.005000231	-0.004999769	1.077 ppm	14 ppm	PASS 2.33 %
Zero 000 mADC	0	8.3659022E-12						INFO
50 mADC	0.05	0.050000368	53.32 ppm	0.04999588	0.05000412	7.356 ppm	29 ppm	PASS 8.94 %
100 mADC	0.1	0.10000165	53.32 ppm	0.09999177	0.1000082	16.542 ppm	29 ppm	PASS 20.10 %
-100 mADC	-0.1	-0.10000218	53.32 ppm	-0.1000082	-0.09999177	21.844 ppm	29 ppm	PASS 26.54 %
-50 mADC	-0.05	-0.050000862	53.32 ppm	-0.05000412	-0.04999588	17.241 ppm	29 ppm	PASS 20.94 %
Zero ADC	0	3.6344678E-11						INFO
0.5 ADC	0.5	0.50000016	115.22 ppm	0.4998874	0.5001126	0.318 ppm	110 ppm	PASS 0.14 %
1.0 ADC	1	1.0000096	115.22 ppm	0.9997748	1.000225	9.583 ppm	110 ppm	PASS 4.25 %
-1.0 ADC	-1	-1.0000113	115.22 ppm	-1.000225	-0.9997748	11.317 ppm	110 ppm	PASS 5.02 %
-0.5 ADC	-0.5	-0.50001428	115.22 ppm	-0.5001126	-0.4998874	28.556 ppm	110 ppm	PASS 12.68 %

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	<b>1.0028348E-05</b>	0.0160 %	9.9893955e-06	1.00106045e-05	2834.786 ppm	0.0900 %	INFO
100 µA AC @ 50 Hz	0.0001	<b>0.00010001474</b>	0.0160 %	9.9893955e-05	0.000100106045	147.378 ppm	0.0900 %	PASS 13.90 %
1.0 mA AC @ 50 Hz	0.001	<b>0.00099997619</b>	0.0160 %	0.00099903955	0.00100096045	-23.807 ppm	0.0800 %	PASS 2.48 %
10 mA AC @ 50 Hz	0.01	<b>0.009999745</b>	0.0160 %	0.0099903955	0.0100096045	-25.504 ppm	0.0800 %	PASS 2.66 %
100 mA AC @ 50 Hz	0.1	<b>0.10000078</b>	0.0133 %	0.099906682	0.100093318	7.757 ppm	0.0800 %	PASS 0.83 %
1.0 A AC @ 50 Hz	1.0	<b>1.0002234</b>	0.0133 %	0.99886682	1.00113318	0.0223 %	0.1000 %	PASS 19.71 %
10 µA AC @ 60 Hz	1e-05	<b>1.0032367E-05</b>	0.0133 %	9.9896682e-06	1.00103318e-05	3236.671 ppm	0.0900 %	INFO
100 µA AC @ 60 Hz	0.0001	<b>0.0001000135</b>	0.0133 %	9.9896682e-05	0.000100103318	134.973 ppm	0.0900 %	PASS 13.06 %
1.0 mA AC @ 60 Hz	0.001	<b>0.00099999649</b>	0.0129 %	0.00099907136	0.00100092864	-3.515 ppm	0.0800 %	PASS 0.38 %
10 mA AC @ 60 Hz	0.01	<b>0.0099999376</b>	0.0129 %	0.0099907136	0.0100092864	-6.235 ppm	0.0800 %	PASS 0.67 %
100 mA AC @ 60 Hz	0.1	<b>0.10000307</b>	0.0288 %	0.099891182	0.100108818	30.691 ppm	0.0800 %	PASS 2.82 %
1.0 A AC @ 60 Hz	1.0	<b>1.0002387</b>	0.0288 %	0.99871182	1.00128818	0.0239 %	0.1000 %	PASS 18.53 %
10 µA AC @ 1.0 kHz	1e-05	<b>1.0024923E-05</b>	0.0160 %	9.9893955e-06	1.00106045e-05	2492.292 ppm	0.0900 %	INFO
100 µA AC @ 1.0 kHz	0.0001	<b>9.9979869E-05</b>	0.0160 %	9.9893955e-05	0.000100106045	-201.314 ppm	0.0900 %	PASS 18.98 %
1.0 mA AC @ 1.0 kHz	0.001	<b>0.0010000276</b>	0.0160 %	0.00099933955	0.00100066045	27.631 ppm	0.0500 %	PASS 4.18 %
10 mA AC @ 1.0 kHz	0.01	<b>0.010000313</b>	0.0160 %	0.0099933955	0.0100066045	31.318 ppm	0.0500 %	PASS 4.74 %
100 mA AC @ 1.0 kHz	0.1	<b>0.1000072</b>	0.0133 %	0.099936682	0.100063318	72.016 ppm	0.0500 %	PASS 11.37 %
1.0 A AC @ 1.0 kHz	1.0	<b>1.0001769</b>	0.0133 %	0.99866682	1.00133318	0.0177 %	0.1200 %	PASS 13.27 %

Test completed

Test date	08 March 2019 12:01
UUT Internal TEMP?	37.2
Destructive overloads?	59, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

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