

Manufacturer	HEWLETT-PACKARD	Calibration date	July 22 2019
Model Number	3458A	Ambient Temperature	24.46 °C
Serial	n/a	Relative Humidity	27.99 %
ID Number	Calibration test	Pressure	1004.23
Notes	Test DCV, Front spade cables	Test type	Front terminals

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
DC STD	xDevs.com	792X[2]	9.9999779 VDC	±0.23 ppm	XD01	06/16/2019	06/16/2020
DC STD	Fluke	732B	10.0000152	±0.02 ppm	6480002	05/30/2019	05/30/2020
STDR	ESI	SR104	9999.9995 KΩ	±0.16 ppm	G202088930104	06/06/2019	06/06/2020
STDR	xDevs.com/Fluke	SL935	1.00005942 Ω	±0.17 ppm	XR03	05/31/2018	05/31/2019
STDR	xDevs.com/Fluke	SL935	9999.9755 kΩ	±0.33 ppm	XR02	05/31/2018	05/31/2019
MFC	Fluke	5720A	03/HLK	E2E6	XC01	07/09/2019	09/09/2019
Amplifier	Fluke	5725A		5930005	XB01	07/09/2019	09/09/2019
DMM	HP	3458A	001,X02	MY45040325	XD2	06/16/2019	12/16/2019
DMM	HP	3458A	001,X02	X	XD3	06/16/2019	12/16/2019
AVMS	Wavetek	4920M	80	29336	XA02	07/11/2017	07/11/2019
Divider	Fluke	752A	4295200		XR01	06/12/2019	09/12/2019

MFC last calibrated	14.0 days ago	MFC since DCV ZERO	3.0 days ago
MFC since WBFLAT	164.0 days ago	MFC since WBGAIN	38.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2019-07-09 00:00:00
MFC Calibrate date Zero	2019-07-20 00:00:00	Calibrate date WB Flatness	2019-02-09 00:00:00
Calibrate date WB Gain	2019-06-15 00:00:00	CAL CONST 6.5V reference voltage	6.9574818317
CAL CONST 13V reference voltage	13.8553050901	CAL CONST 22V range positive zero	398.17936
CAL CONST 22V range negative zero	398.17894	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	9999.80629389	CAL CONST 10KOHM standard resistance	9998.74153246
CAL CONST, Zero calibration temperature	23.1000003815	CAL CONST, All calibration temp	23.1000003815
Booster type	VB5725,IB5725	Current output posts	AUX
Calibrate date 5725A AMP	2019-07-09 00:00:00	Calibrated days ago	Debug
CAL CONST, Amp ACAL temperature	23.1000003815	CAL CONST, Amp CalCheck temperature	23.1000003815

Total uncertainty of each calibration point calculated with RSS

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

Meter Info	HP3458A	Last calibration date	6/12/2019
CALSTR?	"CAL 06/12/2019, TEMP=35.9"	Test date	22 July 2019 17:33

DUT Internal TEMP?	32.3	DUT Calibrations number?	31
Self-test result?	0,"NO ERROR"	ACAL ALL result?	Not tested
Firmware	9,2	Options	1,0
CAL? 72	1.0001299	CAL? 1,1	39998.2902
CAL? 2,1	7.18463972	CAL? Res 73	1.00034013
CAL 0 TEMP	34.33	CAL 10V TEMP	36.47
CAL 10KOhm TEMP	34.24	CAL? DCI	1.00041416

Service information

CAL DUMP

[(1, 39998.2902), (1, 7.18463972), (1, -1.45727242e-06), (1, -2.95596779e-06), (1, -1.79512045e-06), (1, -2.90572151e-06), (1, -2.43946785e-06), (1, -2.25405676e-06), (1, -0.000157505902), (1, -0.000157505902), (1, -0.000199168278), (1, -0.000199168278), (1, 0.409347044), (1, 0.407767581), (1, 0.407327948), (1, 0.390838992), (1, 0.363106481), (1, -0.100810474), (1, -4.65120482), (1, -5.15598674), (1, -5.15598674), (1, 0.394183294), (1, 0.391185258), (1, 0.390530551), (1, 0.363834017), (1, 0.34895667), (1, -0.0792082297), (1, -3.78586439), (1, -4.25459046), (1, -4.25459046), (1, 0.000917744863), (1, 0.00419068396), (1, 0.00400282794), (1, 0.0343535062), (1, 0.0557711392), (1, 0.658868456), (1, 7.03089101), (1, 6.63427665), (1, 6.63427665), (1, 0.000450290562), (1, 0.00367008526), (1, 0.00357680862), (1, 0.0362772593), (1, 0.0838187296), (1, 0.856889031), (1, 6.63427665), (1, 8.18467825), (1, 8.18467825), (1, 409.0), (1, 40.0), (1, 4.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 34.3278813), (1, 36.4736373), (1, 34.2442902), (1, 126.0), (1, -2.66122028e-12), (1, -5.85308588e-12), (1, -5.19548549e-11), (1, -3.49164589e-10), (1, -2.41703259e-09), (1, -2.1719667e-08), (1, -2.01672533e-07), (1, -3.37268535e-07), (1, 0.999561633), (1, 1.00028053), (1, 1.0001299), (1, 1.00034013), (1, 1.00018949), (1, 1.00155552), (1, 1.00141396), (1, 1.00213389), (1, 1.00283535), (1, 1.00197676), (1, 1.0019526), (1, 1.00340279), (1, 1.00340279), (1, 1.00340279), (1, 1.00155552), (1, 1.00141397), (1, 1.0021339), (1, 1.00283545), (1, 1.001977), (1, 1.0019526), (1, 1.00340279), (1, 1.00340279), (1, 1.00340279), (1, 1.00041416), (1, 0.999545434), (1, 0.998570994), (1, 0.999405222), (1, 0.999454291), (1, 1.00031414), (1, 1.00524485), (1, 1.10002246), (1, 78.0), (1, 89.0), (1, 4.94583612), (1, 1.18904824e-11), (1, -1.9337919e-12), (1, 10002016.1), (1, -0.00943849864), (1, -0.0555439605), (1, 0.999999358), (1, 0.999999734), (1, 1666.99401), (1, 1666.9844), (1, 5051.0), (1, 5047.0), (1, 5048.0), (1, 5047.0), (1, 5047.0), (1, 60612.0), (1, 60564.0), (1, 60576.0), (1, 60564.0), (1, 60564.0), (1, 5001.0), (1, 5002.0), (1, 4998.0), (1, 4995.0), (1, 2499.0), (1, 2499.0), (1, 2496.0), (1, 12480.0), (1, 22692.0), (1, 60012.0), (1, 60024.0), (1, 59976.0), (1, 59940.0), (1, 29988.0), (1, 29988.0), (1, 29952.0), (1, 149760.0), (1, 272304.0), (1, 5001.0), (1, 5002.0), (1, 4998.0), (1, 4995.0), (1, 2499.0), (1, 2499.0), (1, 2496.0), (1, 12480.0), (1, 22692.0), (1, 60012.0), (1, 60024.0), (1, 59976.0), (1, 59940.0), (1, 29988.0), (1, 29988.0), (1, 29952.0), (1, 149760.0), (1, 272304.0), (1, 275.0), (1, 275.0), (1, 275.0), (1, 275.0), (1, 3300.0), (1, 3300.0), (1, 3300.0), (1, 3300.0), (1, 3300.0), (1, 3300.0), (1, 3300.0), (1, 3300.0), (1, 30.293047), (1, 29.968), (1, 30.0723322), (1, 119.0), (1, 119.0), (1, 119.0), (1, 119.0), (1, 119.0), (1, 119.0), (1, 119.0), (1, 119.0), (1, 119.0), (1, 119.0), (1, 121.0), (1, 121.0), (1, 121.0), (1, 121.0), (1, 121.0), (1, 121.0), (1, 1914.0), (1, 1904.0), (1, 2260.0), (1, 1954.0), (1, 2181.0), (1, 2186.0), (1, 123.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 125.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, -0.00114830408), (1, -0.0122028764), (1, -0.120266693), (1, -1.25195583), (1, -12.308373), (1, -123.793381), (1, -0.00104884685), (1, -0.0120958754), (1, -0.120230357), (1, -1.25185889), (1, -12.3205337), (1, -123.853384), (1, 1.02268784), (1, 1.02923563), (1, 1.00650037), (1, 1.05670728), (1, 1.04426442), (1, 1.04350482), (1, -419170.768), (1, 10.3653195), (1, 1.00867436), (1, 1.01521627), (1, 0.992790681), (1, 1.04231372), (1, 1.03004035), (1, 1.02929109), (1, -1.4871769e-05), (1, -0.000153175983), (1, -0.00153175983), (1, -0.0153175983), (1, -0.153175983), (1, -1.53175983), (1, 1.02566212), (1, 1.00031033), (1, 0.999719448), (1, 1.00000858), (1, 53.0), (1, 19.0), (1, 19.0), (1, 19.0), (1, 29.0), (1, 35.0), (1, 35.0), (1, 15.0)]

Reference

Verification

DUT Condition

xfer-calkit

Test procedure : \$Id: hp3458a.py | Rev 1497 | 2019/07/22 09:04:12 tin_fpga \$

Source procedure : \$Id: f5720b.py | Rev 1497 | 2019/07/22 09:04:12 tin_fpga \$

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	-0.02 μV	0.75 μV	-0.910 μV	0.910 μV	N/A	0.16 μV	PASS
Short 0.0 VDC	0.000000E+00	0.22 μV	0.75 μV	-0.900 μV	0.900 μV	N/A	0.15 μV	PASS
Short 00.0 VDC	0.000000E+00	0.48 μV	0.75 μV	-1.070 μV	1.070 μV	N/A	0.32 μV	PASS
Short 000.0 VDC	0.000000E+00	5.35 μV	0.75 μV	-14.750 μV	14.750 μV	N/A	14.00 μV	PASS
Short 0000.0 VDC	0.000000E+00	19.61 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
0.019 VDC (0.10 Range)	0.0190000	0.019000009	7.27 ppm	0.018999514	0.019000486	0.487 ppm	18.29 ppm	PASS 1.24 %
0.1 VDC (0.10 Range)	0.1000000	0.099999759	7.27 ppm	0.099998723	0.10000128	-2.411 ppm	5.50 ppm	PASS 13.22 %
0.11 VDC (0.10 Range)	0.1100000	0.10999974	7.27 ppm	0.10999863	0.11000137	-2.338 ppm	5.23 ppm	PASS 13.05 %
-0.019 VDC (0.10 Range)	-0.0190000	-0.018999769	7.27 ppm	-0.019000486	-0.018999514	-12.149 ppm	18.29 ppm	PASS 30.86 %
-0.1 VDC (0.10 Range)	-0.1000000	-0.099999692	7.27 ppm	-0.10000128	-0.099998723	-3.078 ppm	5.50 ppm	PASS 16.88 %
-0.11 VDC (0.10 Range)	-0.1100000	-0.10999968	7.27 ppm	-0.11000137	-0.10999863	-2.929 ppm	5.23 ppm	PASS 16.36 %
0.19 VDC (1.00 Range)	0.1900000	0.18999983	7.27 ppm	0.18999803	0.19000197	-0.888 ppm	3.08 ppm	PASS 5.62 %
1.0 VDC (1.00 Range)	1.0000000	1.0000004	3.86 ppm	0.99999434	1.0000057	0.436 ppm	1.80 ppm	PASS 5.12 %
1.1 VDC (1.00 Range)	1.1000000	1.1000007	3.86 ppm	1.0999938	1.1000062	0.639 ppm	1.77 ppm	PASS 7.52 %
-0.19 VDC (1.00 Range)	-0.1900000	-0.18999922	7.27 ppm	-0.19000197	-0.18999803	-4.129 ppm	3.08 ppm	PASS 26.15 %
-1.0 VDC (1.00 Range)	-1.0000000	-1.0000002	3.86 ppm	-1.0000057	-0.99999434	0.234 ppm	1.80 ppm	PASS 2.75 %
-1.1 VDC (1.00 Range)	-1.1000000	-1.1000002	3.86 ppm	-1.1000062	-1.0999938	0.183 ppm	1.77 ppm	PASS 2.15 %
1.9 VDC (10.00 Range)	1.9000000	1.9000017	3.86 ppm	1.8999912	1.9000088	0.870 ppm	0.76 ppm	PASS 11.06 %
10.0 VDC (10.00 Range)	10.0000000	10.000001	2.77 ppm	9.9999668	10.000033	0.100 ppm	0.55 ppm	PASS 1.77 %
11.0 VDC (10.00 Range)	11.0000000	11.000003	2.73 ppm	10.999964	11.000036	0.315 ppm	0.55 ppm	PASS 5.65 %
-1.9 VDC (10.00 Range)	-1.9000000	-1.9000001	3.86 ppm	-1.9000088	-1.8999912	0.049 ppm	0.76 ppm	PASS 0.63 %
-10.0 VDC (10.00 Range)	-10.0000000	-9.9999999	2.77 ppm	-10.000033	-9.9999668	-0.006 ppm	0.55 ppm	PASS 0.11 %
-11.0 VDC (10.00 Range)	-11.0000000	-11.000003	2.73 ppm	-11.000036	-10.999964	0.299 ppm	0.55 ppm	PASS 5.37 %
19 VDC (100.00 Range)	19.0000000	19.000029	2.77 ppm	18.99987	19.00013	1.502 ppm	4.08 ppm	PASS 15.23 %
100 VDC (100.00 Range)	100.0000000	99.999997	3.73 ppm	99.999347	100.00065	-0.034 ppm	2.80 ppm	PASS 0.36 %
110 VDC (100.00 Range)	110.0000000	109.99997	3.73 ppm	109.99928	110.00072	-0.250 ppm	2.77 ppm	PASS 2.68 %
-19 VDC (100.00 Range)	-19.0000000	-18.999993	2.77 ppm	-19.00013	-18.99987	-0.375 ppm	4.08 ppm	PASS 3.80 %
-100 VDC (100.00 Range)	-100.0000000	-99.999928	3.73 ppm	-100.00065	-99.999347	-0.719 ppm	2.80 ppm	PASS 7.71 %
-110 VDC (100.00 Range)	-110.0000000	-109.99991	3.73 ppm	-110.00072	-109.99928	-0.798 ppm	2.77 ppm	PASS 8.58 %
190 VDC (1000.00 Range)	190.0000000	189.99989	3.73 ppm	189.99872	190.00128	-0.605 ppm	3.03 ppm	PASS 6.30 %
500 VDC (1000.00 Range)	500.0000000	500.00082	3.73 ppm	499.99678	500.00322	1.634 ppm	2.70 ppm	PASS 21.90 %
1000 VDC (1000.00 Range)	1000.0000000	1000.0004	5.45 ppm	999.97995	1000.02	0.399 ppm	2.60 ppm	PASS 1.51 %
-190 VDC (1000.00 Range)	-190.0000000	-189.99984	3.73 ppm	-190.00128	-189.99872	-0.844 ppm	3.03 ppm	PASS 8.79 %
-500 VDC (1000.00 Range)	-500.0000000	-500.00067	3.73 ppm	-500.00322	-499.99678	1.345 ppm	2.70 ppm	PASS 5.35 %
-1000 VDC (1000.00 Range)	-1000.0000000	-1000.0005	5.45 ppm	-1000.02	-999.97995	0.466 ppm	2.60 ppm	PASS 1.77 %

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	Reference	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1 Ω	0.9997911 Ω	0.99978027 Ω	32.0 ppm	9.9972411E-01	9.9985809E-01	-10.830 ppm	35.01 ppm	PASS, 11.42 % of 94.86 ppm
1.9 Ω	1.899834 Ω	1.8998235 Ω	25.0 ppm	1.8997470E+00	1.8999210E+00	-5.502 ppm	20.79 ppm	PASS, 8.46 % of 65.03 ppm
10 Ω	10.000601 Ω	10.00059 Ω	5.0 ppm	1.0000471E+01	1.0000731E+01	-1.107 ppm	8.00 ppm	PASS, 5.87 % of 18.87 ppm
19 Ω	19.000308 Ω	19.000341 Ω	4.0 ppm	1.8999875E+01	1.9000741E+01	1.717 ppm	18.79 ppm	PASS, 4.47 % of 38.42 ppm
100 Ω	99.99682 Ω	99.99691 Ω	1.7 ppm	9.9996050E+01	9.9997590E+01	0.902 ppm	6.00 ppm	PASS, 7.23 % of 12.47 ppm
190 Ω	189.99493 Ω	189.99485 Ω	1.7 ppm	1.8999403E+02	1.8999583E+02	-0.431 ppm	3.05 ppm	PASS, 6.16 % of 6.99 ppm
1.0 kΩ	1000.0272 kΩ	1000.0264 kΩ	1.7 ppm	1.0000233E+03	1.0000311E+03	-0.812 ppm	2.20 ppm	PASS, 14.60 % of 5.56 ppm
1.9 kΩ	1899.9094 kΩ	1899.9078 kΩ	1.7 ppm	1.8999004E+03	1.8999184E+03	-0.818 ppm	3.05 ppm	PASS, 11.70 % of 6.99 ppm
10 kΩ	9999.806 kΩ	9999.793 kΩ	1.6 ppm	9.9997680E+03	9.9998440E+03	-1.303 ppm	2.20 ppm	PASS, 23.96 % of 5.44 ppm
19 kΩ	18999.295 kΩ	18999.279 kΩ	1.7 ppm	1.8999205E+04	1.8999385E+04	-0.866 ppm	3.05 ppm	PASS, 12.39 % of 6.99 ppm
100 kΩ	99994.7 kΩ	99994.26 kΩ	2.0 ppm	9.9994280E+04	9.9995120E+04	-4.403 ppm	2.20 ppm	PASS, 74.04 % of 5.95 ppm
190 kΩ	189989.06 kΩ	189988.98 kΩ	2.0 ppm	1.8998578E+05	1.8999234E+05	-0.443 ppm	15.26 ppm	PASS, 1.44 % of 30.79 ppm
1.0 MΩ	999980.8 MΩ	999979.25 MΩ	2.5 ppm	9.9996730E+05	9.9999430E+05	-1.553 ppm	11.00 ppm	PASS, 6.88 % of 22.56 ppm
1.9 MΩ	1899975.4 MΩ	1899988.2 MΩ	3.0 ppm	1.8998247E+06	1.9001261E+06	6.722 ppm	76.32 ppm	PASS, 4.40 % of 152.75 ppm
10 MΩ	9999062 MΩ	9999073.1 MΩ	10.0 ppm	9.9984121E+06	9.9997119E+06	1.113 ppm	55.00 ppm	PASS, 1.00 % of 111.80 ppm
19 MΩ	18998643 MΩ	18999044 MΩ	20.0 ppm	1.8987764E+07	1.9009522E+07	21.113 ppm	552.64 ppm	PASS, 1.91 % of 1105.99 ppm
100 MΩ	1.0000439E+08 MΩ	1.0000489E+08 MΩ	50.0 ppm	9.9948388E+07	1.0006039E+08	4.958 ppm	510.00 ppm	PASS, 0.48 % of 1024.89 ppm

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 0.0000035 Ω	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	Range -0.0000067 Ω	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.0000162 Ω	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range 0.0003784 Ω	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range -0.0028804 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range -0.1368142 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range -1.5504017 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range -1.1177313 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range -1.5504014 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 0.2555526 Ω	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	Range 0.2547214 Ω	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.2506044 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range 0.2626987 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.2729149 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.4392451 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 2.1633466 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 2.5599608 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 2.5599608 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 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	0.01000152	0.0312 %	-0.290006	0.310006	0.0152 %	3000.0300 %	PASS 0.00 %
0.01 V AC+DC @ 20 Hz	0.010001524	0.0312 %	-0.290006	0.310006	0.0152 %	3000.0300 %	PASS 0.00 %
0.01 V AC+DC @ 40 Hz	0.010001406	0.0312 %	-0.290006	0.310006	0.0141 %	3000.0300 %	PASS 0.00 %
0.01 V AC+DC @ 100 Hz	0.010001349	0.0312 %	-0.100005	0.120005	0.0135 %	1100.0200 %	PASS 0.00 %
0.01 V AC+DC @ 1.0 kHz	0.01000056	0.0312 %	-0.100005	0.120005	0.0056 %	1100.0200 %	PASS 0.00 %
0.01 V AC+DC @ 10.0 kHz	0.009999517	0.0312 %	-0.100006	0.120006	-0.0045 %	1100.0300 %	PASS 0.00 %
0.01 V AC+DC @ 20.0 kHz	0.0099996432	0.0312 %	-0.100006	0.120006	-0.0036 %	1100.0300 %	PASS 0.00 %
0.01 V AC+DC @ 50.0 kHz	0.0099966174	0.0447 %	-0.100014	0.120014	-0.0338 %	1100.1000 %	PASS 0.00 %
0.01 V AC+DC @ 100.0 kHz	0.0099755027	0.0773 %	-0.100058	0.120058	-0.2450 %	1100.5000 %	PASS 0.01 %
0.01 V AC+DC @ 300.0 kHz	0.0098088173	0.1500 %	-0.190415	0.210415	-1.9118 %	2004.0000 %	PASS 0.05 %
0.01 V AC+DC @ 500.0 kHz	0.0095561412	0.2500 %	-0.493225	0.513225	-4.4386 %	5032.0000 %	PASS 0.04 %
0.01 V AC+DC @ 1.0 MHz	0.008528887	0.4000 %	-0.493240	0.513240	-14.7111 %	5032.0000 %	PASS 0.15 %
0.03 V AC+DC @ 10 Hz	0.029998684	0.0121 %	0.029994	0.030006	-0.0044 %	0.0083 %	PASS 14.90 %
0.03 V AC+DC @ 20 Hz	0.029998576	0.0121 %	0.029994	0.030006	-0.0047 %	0.0083 %	PASS 16.12 %
0.03 V AC+DC @ 40 Hz	0.029998526	0.0121 %	0.029994	0.030006	-0.0049 %	0.0083 %	PASS 16.69 %
0.03 V AC+DC @ 100 Hz	0.02999812	0.0121 %	0.029994	0.030006	-0.0063 %	0.0077 %	PASS 21.82 %
0.03 V AC+DC @ 1.0 kHz	0.029998753	0.0121 %	0.029994	0.030006	-0.0042 %	0.0077 %	PASS 14.47 %
0.03 V AC+DC @ 10.0 kHz	0.02999834	0.0121 %	0.029992	0.030008	-0.0055 %	0.0147 %	PASS 14.54 %
0.03 V AC+DC @ 20.0 kHz	0.029996997	0.0121 %	0.029992	0.030008	-0.0100 %	0.0147 %	PASS 26.29 %
0.03 V AC+DC @ 50.0 kHz	0.029997034	0.0256 %	0.029983	0.030017	-0.0099 %	0.0307 %	PASS 12.37 %
0.03 V AC+DC @ 100.0 kHz	0.029987104	0.0591 %	0.029958	0.030042	-0.0430 %	0.0807 %	PASS 21.49 %
0.03 V AC+DC @ 300.0 kHz	0.029936669	0.0964 %	0.029880	0.030120	-0.2111 %	0.3033 %	PASS 33.16 %
0.03 V AC+DC @ 500.0 kHz	0.029906858	0.1500 %	0.029654	0.030346	-0.3105 %	1.0033 %	PASS 15.30 %
0.03 V AC+DC @ 1.0 MHz	0.029921168	0.3000 %	0.029609	0.030391	-0.2628 %	1.0033 %	PASS 12.55 %
0.1 V AC+DC @ 10 Hz	0.099992618	0.0121 %	0.099980	0.100020	-0.0074 %	0.0074 %	PASS 25.97 %
0.1 V AC+DC @ 20 Hz	0.09999122	0.0121 %	0.099980	0.100020	-0.0088 %	0.0074 %	PASS 30.88 %
0.1 V AC+DC @ 40 Hz	0.099991041	0.0121 %	0.099980	0.100020	-0.0090 %	0.0074 %	PASS 31.51 %
0.1 V AC+DC @ 100 Hz	0.099991006	0.0121 %	0.099981	0.100019	-0.0090 %	0.0072 %	PASS 31.87 %
0.1 V AC+DC @ 1.0 kHz	0.099992232	0.0121 %	0.099981	0.100019	-0.0078 %	0.0072 %	PASS 27.53 %
0.1 V AC+DC @ 10.0 kHz	0.099989968	0.0121 %	0.099974	0.100026	-0.0100 %	0.0142 %	PASS 26.85 %
0.1 V AC+DC @ 20.0 kHz	0.099986548	0.0121 %	0.099974	0.100026	-0.0135 %	0.0142 %	PASS 36.01 %
0.1 V AC+DC @ 50.0 kHz	0.099983067	0.0256 %	0.099944	0.100056	-0.0169 %	0.0302 %	PASS 21.37 %
0.1 V AC+DC @ 100.0 kHz	0.099947692	0.0591 %	0.099861	0.100139	-0.0523 %	0.0802 %	PASS 26.25 %
0.1 V AC+DC @ 300.0 kHz	0.099779064	0.0964 %	0.099603	0.100397	-0.2209 %	0.3010 %	PASS 34.95 %
0.1 V AC+DC @ 500.0 kHz	0.099678637	0.1500 %	0.098849	0.101151	-0.3214 %	1.0010 %	PASS 15.87 %
0.1 V AC+DC @ 1.0 MHz	0.099786794	0.3000 %	0.098699	0.101301	-0.2132 %	1.0010 %	PASS 10.20 %
0.3 V AC+DC @ 10 Hz	0.29998419	0.0050 %	0.299960	0.300040	-0.0053 %	0.0083 %	PASS 27.18 %
0.3 V AC+DC @ 20 Hz	0.29997925	0.0050 %	0.299960	0.300040	-0.0069 %	0.0083 %	PASS 35.67 %
0.3 V AC+DC @ 40 Hz	0.29998035	0.0050 %	0.299960	0.300040	-0.0066 %	0.0083 %	PASS 33.79 %
0.3 V AC+DC @ 100 Hz	0.29998051	0.0050 %	0.299962	0.300038	-0.0065 %	0.0077 %	PASS 35.59 %
0.3 V AC+DC @ 1.0 kHz	0.29998856	0.0050 %	0.299962	0.300038	-0.0038 %	0.0077 %	PASS 20.88 %
0.3 V AC+DC @ 10.0 kHz	0.29997916	0.0050 %	0.299941	0.300059	-0.0069 %	0.0147 %	PASS 22.44 %
0.3 V AC+DC @ 20.0 kHz	0.29996374	0.0050 %	0.299941	0.300059	-0.0121 %	0.0147 %	PASS 39.04 %
0.3 V AC+DC @ 50.0 kHz	0.29999458	0.0085 %	0.299882	0.300118	-0.0018 %	0.0307 %	PASS 2.84 %
0.3 V AC+DC @ 100.0 kHz	0.30002536	0.0138 %	0.299717	0.300283	0.0085 %	0.0807 %	PASS 5.16 %

0.3 V AC+DC @ 300.0 kHz	0.30035126	0.0425 %	0.298962	0.301038	0.1171 %	0.3033 %	PASS 19.11 %
0.3 V AC+DC @ 500.0 kHz	0.30096784	0.1100 %	0.296660	0.303340	0.3226 %	1.0033 %	PASS 15.98 %
0.3 V AC+DC @ 1.0 MHz	0.30273673	0.1800 %	0.296450	0.303550	0.9122 %	1.0033 %	PASS 44.75 %
1.0 V AC+DC @ 10 Hz	0.99998262	0.0050 %	0.999876	1.000124	-0.0017 %	0.0074 %	PASS 9.76 %
1.0 V AC+DC @ 20 Hz	0.99996911	0.0050 %	0.999876	1.000124	-0.0031 %	0.0074 %	PASS 17.34 %
1.0 V AC+DC @ 40 Hz	0.99996841	0.0050 %	0.999876	1.000124	-0.0032 %	0.0074 %	PASS 17.73 %
1.0 V AC+DC @ 100 Hz	0.99996763	0.0050 %	0.999878	1.000122	-0.0032 %	0.0072 %	PASS 18.52 %
1.0 V AC+DC @ 1.0 kHz	0.99998826	0.0050 %	0.999878	1.000122	-0.0012 %	0.0072 %	PASS 6.72 %
1.0 V AC+DC @ 10.0 kHz	0.99993827	0.0050 %	0.999808	1.000192	-0.0062 %	0.0142 %	PASS 20.52 %
1.0 V AC+DC @ 20.0 kHz	0.99991169	0.0050 %	0.999808	1.000192	-0.0088 %	0.0142 %	PASS 29.36 %
1.0 V AC+DC @ 50.0 kHz	0.9999829	0.0085 %	0.999613	1.000387	-0.0017 %	0.0302 %	PASS 2.72 %
1.0 V AC+DC @ 100.0 kHz	1.0000423	0.0138 %	0.999060	1.000940	0.0042 %	0.0802 %	PASS 2.60 %
1.0 V AC+DC @ 300.0 kHz	1.0012034	0.0425 %	0.996565	1.003435	0.1203 %	0.3010 %	PASS 19.79 %
1.0 V AC+DC @ 500.0 kHz	1.0032564	0.1100 %	0.988890	1.011110	0.3256 %	1.0010 %	PASS 16.17 %
1.0 V AC+DC @ 1.0 MHz	1.0093214	0.1800 %	0.988190	1.011810	0.9321 %	1.0010 %	PASS 45.83 %
3.0 V AC+DC @ 10 Hz	3.0000052	0.0048 %	2.999605	3.000395	0.0002 %	0.0083 %	PASS 0.91 %
3.0 V AC+DC @ 20 Hz	2.9999663	0.0048 %	2.999605	3.000395	-0.0011 %	0.0083 %	PASS 5.83 %
3.0 V AC+DC @ 40 Hz	2.9999554	0.0048 %	2.999605	3.000395	-0.0015 %	0.0083 %	PASS 7.72 %
3.0 V AC+DC @ 100 Hz	2.999959	0.0048 %	2.999625	3.000375	-0.0014 %	0.0077 %	PASS 7.54 %
3.0 V AC+DC @ 1.0 kHz	3.0000196	0.0048 %	2.999625	3.000375	0.0007 %	0.0077 %	PASS 3.61 %
3.0 V AC+DC @ 10.0 kHz	2.9998758	0.0048 %	2.999415	3.000585	-0.0041 %	0.0147 %	PASS 13.41 %
3.0 V AC+DC @ 20.0 kHz	2.9998036	0.0048 %	2.999415	3.000585	-0.0065 %	0.0147 %	PASS 21.20 %
3.0 V AC+DC @ 50.0 kHz	2.9997868	0.0085 %	2.998824	3.001176	-0.0071 %	0.0307 %	PASS 11.16 %
3.0 V AC+DC @ 100.0 kHz	2.9989617	0.0121 %	2.997216	3.002784	-0.0346 %	0.0807 %	PASS 21.21 %
3.0 V AC+DC @ 300.0 kHz	2.995506	0.0336 %	2.989891	3.010109	-0.1498 %	0.3033 %	PASS 24.54 %
3.0 V AC+DC @ 500.0 kHz	2.9988432	0.1100 %	2.966600	3.033400	-0.0386 %	1.0033 %	PASS 1.91 %
3.0 V AC+DC @ 1.0 MHz	3.0207601	0.1700 %	2.964800	3.035200	0.6920 %	1.0033 %	PASS 34.00 %
10.0 V AC+DC @ 10 Hz	10.00015	0.0048 %	9.998778	10.001222	0.0015 %	0.0074 %	PASS 8.50 %
10.0 V AC+DC @ 20 Hz	9.9999417	0.0048 %	9.998778	10.001222	-0.0006 %	0.0074 %	PASS 3.30 %
10.0 V AC+DC @ 40 Hz	9.9999275	0.0048 %	9.998778	10.001222	-0.0007 %	0.0074 %	PASS 4.10 %
10.0 V AC+DC @ 100 Hz	9.9999006	0.0048 %	9.998798	10.001202	-0.0010 %	0.0072 %	PASS 5.74 %
10.0 V AC+DC @ 1.0 kHz	10.000133	0.0048 %	9.998798	10.001202	0.0013 %	0.0072 %	PASS 7.68 %
10.0 V AC+DC @ 10.0 kHz	9.9995931	0.0048 %	9.998098	10.001902	-0.0041 %	0.0142 %	PASS 13.57 %
10.0 V AC+DC @ 20.0 kHz	9.9993911	0.0048 %	9.998098	10.001902	-0.0061 %	0.0142 %	PASS 20.30 %
10.0 V AC+DC @ 50.0 kHz	9.9992113	0.0085 %	9.996125	10.003875	-0.0079 %	0.0302 %	PASS 12.57 %
10.0 V AC+DC @ 100.0 kHz	9.9959751	0.0121 %	9.990766	10.009234	-0.0402 %	0.0802 %	PASS 24.81 %
10.0 V AC+DC @ 300.0 kHz	9.9851193	0.0336 %	9.966536	10.033464	-0.1488 %	0.3010 %	PASS 24.57 %
10.0 V AC+DC @ 500.0 kHz	9.995827	0.1100 %	9.888900	10.111100	-0.0417 %	1.0010 %	PASS 2.07 %
10.0 V AC+DC @ 1.0 MHz	10.069369	0.1700 %	9.882900	10.117100	0.6937 %	1.0010 %	PASS 34.16 %
30 V AC+DC @ 10 Hz	29.999029	0.0060 %	29.991795	30.008205	-0.0032 %	0.0213 %	PASS 7.30 %
30 V AC+DC @ 20 Hz	29.998476	0.0060 %	29.991795	30.008205	-0.0051 %	0.0213 %	PASS 11.46 %
30 V AC+DC @ 40 Hz	29.998579	0.0060 %	29.991795	30.008205	-0.0047 %	0.0213 %	PASS 10.69 %
30 V AC+DC @ 100 Hz	29.998475	0.0060 %	29.991995	30.008005	-0.0051 %	0.0207 %	PASS 11.81 %
30 V AC+DC @ 1.0 kHz	29.999118	0.0060 %	29.991995	30.008005	-0.0029 %	0.0207 %	PASS 6.83 %
30 V AC+DC @ 10.0 kHz	29.99742	0.0060 %	29.991995	30.008005	-0.0086 %	0.0207 %	PASS 19.98 %
30 V AC+DC @ 20.0 kHz	29.995286	0.0060 %	29.991995	30.008005	-0.0157 %	0.0207 %	PASS 36.50 %
30 V AC+DC @ 50.0 kHz	29.989534	0.0060 %	29.987495	30.012505	-0.0349 %	0.0357 %	PASS 48.22 %
30 V AC+DC @ 100.0 kHz	29.962646	0.0174 %	29.958591	30.041409	-0.1245 %	0.1207 %	PASS 51.07 %
30 V AC+DC @ 300.0 kHz	29.756123	0.0991 %	29.849273	30.150727	-0.8129 %	0.4033 %	PASS 97.87 %
30 V AC+DC @ 500.0 kHz	29.514371	0.5200 %	29.393000	30.607000	-1.6188 %	1.5033 %	PASS 50.88 %

100.0 V AC+DC @ 10 Hz	99.998199	0.0060 %	99.973582	100.026418	-0.0018 %	0.0204 %	PASS 4.23 %
100.0 V AC+DC @ 20 Hz	99.996898	0.0060 %	99.973582	100.026418	-0.0031 %	0.0204 %	PASS 7.29 %
100.0 V AC+DC @ 40 Hz	99.996617	0.0060 %	99.973582	100.026418	-0.0034 %	0.0204 %	PASS 7.95 %
100.0 V AC+DC @ 100 Hz	99.996418	0.0060 %	99.973782	100.026218	-0.0036 %	0.0202 %	PASS 8.50 %
100.0 V AC+DC @ 1.0 kHz	99.998685	0.0060 %	99.973782	100.026218	-0.0013 %	0.0202 %	PASS 3.12 %
100.0 V AC+DC @ 10.0 kHz	99.99398	0.0060 %	99.973782	100.026218	-0.0060 %	0.0202 %	PASS 14.28 %
100.0 V AC+DC @ 20.0 kHz	99.987609	0.0060 %	99.973782	100.026218	-0.0124 %	0.0202 %	PASS 29.39 %
100.0 V AC+DC @ 50.0 kHz	99.96599	0.0095 %	99.955255	100.044745	-0.0340 %	0.0352 %	PASS 46.63 %
100.0 V AC+DC @ 100.0 kHz	99.872034	0.0174 %	99.862436	100.137564	-0.1280 %	0.1202 %	PASS 52.68 %
300.0 V AC+DC @ 100 Hz	299.94048	0.0079 %	299.854408	300.145592	-0.0198 %	0.0407 %	PASS 23.95 %
300.0 V AC+DC @ 1.0 kHz	299.94309	0.0079 %	299.854408	300.145592	-0.0190 %	0.0407 %	PASS 22.90 %
300.0 V AC+DC @ 10.0 kHz	299.92406	0.0079 %	299.794408	300.205592	-0.0253 %	0.0607 %	PASS 20.69 %
300.0 V AC+DC @ 20.0 kHz	299.90407	0.0110 %	299.784865	300.215135	-0.0320 %	0.0607 %	PASS 25.93 %
300.0 V AC+DC @ 50.0 kHz	300.00331	0.0110 %	299.604865	300.395135	0.0011 %	0.1207 %	PASS 0.45 %
750.0 V AC+DC @ 100 Hz	749.93023	0.0245 %	749.514498	750.485502	-0.0093 %	0.0403 %	PASS 9.87 %
750.0 V AC+DC @ 1.0 kHz	749.93712	0.0660 %	749.203000	750.797000	-0.0084 %	0.0403 %	PASS 5.42 %
750.0 V AC+DC @ 10.0 kHz	749.84212	0.0079 %	749.489020	750.510980	-0.0211 %	0.0603 %	PASS 17.32 %
750.0 V AC+DC @ 20.0 kHz	749.75642	0.0079 %	749.489020	750.510980	-0.0325 %	0.0603 %	PASS 26.72 %

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 μ ADC	0	3.6476567E-11						INFO
50 nADC	5E-08	5.0010659E-08						INFO
100 nADC	1E-07	1.0002511E-07	71.82 ppm	9.995282E-08	1.000472E-07	251.084 ppm	400 ppm	PASS 30.89 %
-100 nADC	-1E-07	-9.9936E-08	71.82 ppm	-1.000492E-07	-9.995082E-08	-640.002 ppm	420 ppm	PASS 75.10 %
-50 nADC	-5E-08	-4.9902852E-08						INFO
Zero μ ADC	0	4.1859616E-11						INFO
0.5 μ ADC	5E-07	5.0000248E-07	71.82 ppm	4.999201E-07	5.000799E-07	4.965 ppm	88 ppm	PASS 2.19 %
1.0 μ ADC	1E-06	1.0000396E-06	71.82 ppm	9.998792E-07	1.000121E-06	39.644 ppm	49 ppm	PASS 22.80 %
-1.0 μ ADC	-1E-06	-9.9993643E-07	71.82 ppm	-1.000123E-06	-9.998772E-07	-63.569 ppm	51 ppm	PASS 36.08 %
-0.5 μ ADC	-5E-07	-4.9995392E-07	71.82 ppm	-5.000819E-07	-4.999181E-07	-92.164 ppm	92 ppm	PASS 39.48 %
Zero 00 μ ADC	0	8.656033E-11						INFO
5 μ ADC	5E-06	5.0000632E-06	71.82 ppm	4.999522E-06	5.000478E-06	12.640 ppm	24 ppm	PASS 8.35 %
10 μ ADC	1E-05	9.999965E-06	71.82 ppm	9.999113E-06	1.000089E-05	-0.350 ppm	17 ppm	PASS 0.24 %
-10 μ ADC	-1E-05	-9.9999229E-06	71.82 ppm	-1.000089E-05	-9.999111E-06	-7.708 ppm	17 ppm	PASS 5.22 %
-5 μ ADC	-5E-06	-4.9999094E-06	71.82 ppm	-5.00048E-06	-4.99952E-06	-18.121 ppm	24 ppm	PASS 11.95 %
Zero 000 μ ADC	0	-2.2199148E-11						INFO
50 μ ADC	5E-05	5.0000327E-05	71.82 ppm	4.999531E-05	5.000469E-05	6.550 ppm	22 ppm	PASS 4.36 %
100 μ ADC	0.0001	0.00010000038	71.82 ppm	9.999122E-05	0.0001000088	3.771 ppm	16 ppm	PASS 2.56 %
-100 μ ADC	-0.0001	-0.0001	71.82 ppm	-0.0001000088	-9.999122E-05	0.018 ppm	16 ppm	PASS 0.01 %
-50 μ ADC	-5E-05	-4.9999845E-05	71.82 ppm	-5.000469E-05	-4.999531E-05	-3.091 ppm	22 ppm	PASS 2.06 %
Zero mADC	0	4.7679127E-11						INFO
0.5 mADC	0.0005	0.00049999895	33.64 ppm	0.0004999742	0.0005000258	-2.105 ppm	18 ppm	PASS 2.76 %
1.0 mADC	0.001	0.00099999825	33.64 ppm	0.0009999524	0.001000048	-1.754 ppm	14 ppm	PASS 2.41 %
-1.0 mADC	-0.001	-0.00099999875	33.64 ppm	-0.001000048	-0.0009999524	-1.251 ppm	14 ppm	PASS 1.72 %
-0.5 mADC	-0.0005	-0.00049999949	33.64 ppm	-0.0005000258	-0.0004999742	-1.020 ppm	18 ppm	PASS 1.34 %
Zero 00 mADC	0	7.0265698E-11						INFO
5 mADC	0.005	0.0049999926	32.27 ppm	0.004999749	0.005000251	-1.487 ppm	18 ppm	PASS 2.01 %
10 mADC	0.01	0.0099999791	32.27 ppm	0.009999537	0.01000046	-2.086 ppm	14 ppm	PASS 2.97 %
-10 mADC	-0.01	-0.009999986	32.27 ppm	-0.01000046	-0.009999537	-1.399 ppm	14 ppm	PASS 1.99 %
-5 mADC	-0.005	-0.0049999915	32.27 ppm	-0.005000251	-0.004999749	-1.698 ppm	18 ppm	PASS 2.30 %
Zero 000 mADC	0	3.8676866E-12						INFO
50 mADC	0.05	0.04999997	53.32 ppm	0.04999568	0.05000432	-0.604 ppm	33 ppm	PASS 0.48 %
100 mADC	0.1	0.099999919	53.32 ppm	0.09999177	0.1000082	-0.807 ppm	29 ppm	PASS 0.66 %
-100 mADC	-0.1	-0.10000082	53.32 ppm	-0.1000082	-0.09999177	8.243 ppm	29 ppm	PASS 6.79 %
-50 mADC	-0.05	-0.05000042	53.32 ppm	-0.05000432	-0.04999568	8.406 ppm	33 ppm	PASS 6.70 %
Zero ADC	0	4.1929907E-12						INFO
0.5 ADC	0.5	0.49999431	115.22 ppm	0.4998824	0.5001176	-11.385 ppm	120 ppm	PASS 3.42 %
1.0 ADC	1	0.99994262	115.22 ppm	0.9997748	1.000225	-57.377 ppm	110 ppm	PASS 18.01 %
-1.0 ADC	-1	-0.99996374	115.22 ppm	-1.000225	-0.9997748	-36.259 ppm	110 ppm	PASS 11.38 %
-0.5 ADC	-0.5	-0.49999255	115.22 ppm	-0.5001176	-0.4998824	-14.895 ppm	120 ppm	PASS 4.48 %

ACI Test	200µA-2A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result, % spec
10 µA AC @ 50 Hz	1e-05	1.0020395E-05	0.0160 %	-0.0002900076045	0.0003100076045	0.2039 %	3000.0600 %	INFO
100 µA AC @ 50 Hz	0.0001	0.00010001086	0.0160 %	-0.000200076045	0.000400076045	0.0109 %	300.0600 %	PASS 0.00 %
1.0 mA AC @ 50 Hz	0.001	0.0010000271	0.0160 %	0.00099921955	0.00100078045	27.060 ppm	0.0620 %	PASS 2.11 %
10 mA AC @ 50 Hz	0.01	0.010000264	0.0160 %	0.0099921955	0.0100078045	26.367 ppm	0.0620 %	PASS 2.06 %
100 mA AC @ 50 Hz	0.1	0.1000078	0.0133 %	0.099924682	0.100075318	78.036 ppm	0.0620 %	PASS 6.15 %
1.0 A AC @ 50 Hz	1.0	1.0001806	0.0133 %	0.99904682	1.00095318	180.613 ppm	0.0820 %	PASS 10.87 %
10 µA AC @ 60 Hz	1e-05	1.0019948E-05	0.0133 %	-0.0002900073318	0.0003100073318	0.1995 %	3000.0600 %	INFO
100 µA AC @ 60 Hz	0.0001	0.00010001265	0.0133 %	-0.000200073318	0.000400073318	0.0127 %	300.0600 %	PASS 0.00 %
1.0 mA AC @ 60 Hz	0.001	0.0010000609	0.0129 %	0.00099925136	0.00100074864	60.937 ppm	0.0620 %	PASS 4.81 %
10 mA AC @ 60 Hz	0.01	0.010000565	0.0129 %	0.0099925136	0.0100074864	56.525 ppm	0.0620 %	PASS 4.46 %
100 mA AC @ 60 Hz	0.1	0.10001106	0.0288 %	0.099909182	0.100090818	110.642 ppm	0.0620 %	PASS 8.09 %
1.0 A AC @ 60 Hz	1.0	1.000198	0.0288 %	0.99889182	1.00110818	197.974 ppm	0.0820 %	PASS 11.39 %
10 µA AC @ 1.0 kHz	1e-05	1.0019672E-05	0.0160 %	-0.0002900076045	0.0003100076045	0.1967 %	3000.0600 %	INFO
100 µA AC @ 1.0 kHz	0.0001	9.9994203E-05	0.0160 %	-0.000200076045	0.000400076045	-0.0058 %	300.0600 %	PASS 0.00 %
1.0 mA AC @ 1.0 kHz	0.001	0.0010001116	0.0160 %	0.00099951955	0.00100048045	111.585 ppm	0.0320 %	PASS 15.59 %
10 mA AC @ 1.0 kHz	0.01	0.010001122	0.0160 %	0.0099951955	0.0100048045	112.233 ppm	0.0320 %	PASS 15.68 %
100 mA AC @ 1.0 kHz	0.1	0.10001657	0.0133 %	0.099954682	0.100045318	165.706 ppm	0.0320 %	PASS 23.90 %
1.0 A AC @ 1.0 kHz	1.0	1.0001283	0.0133 %	0.99884682	1.00115318	0.0128 %	0.1020 %	PASS 6.23 %

Test date	23 July 2019 09:36
UUT Internal TEMP?	32.6

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated