cal equipment

3458-GPIB22

Manufacturer	HEWLETT-PACKARD	Calibration date	May 08 2019
Model Number	3458A	Ambient Temperature	0.00 °C
Serial	5720A-test	Relative Humidity	0.00 %
ID Number	CalCheck after ACAL	Pressure	0.00
Notes	N/A	Test type	3458B22

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
MFC	Fluke	5720A	None	none	BY01	11/12/2017	11/12/2018

MFC last calibrated	1241.0 days ago	MFC since DCV ZERO	0.0 days ago
MFC since WBFLAT	11449.0 days ago	MFC since WBGAIN	5703.0 days ago
MFC Confidence level	**24h 95% REL**	MFC Calibrate date	Debug
MFC Calibrate date Zero	2019-08-05 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	Debug	CAL CONST 6.5V reference voltage	6.91900897554
CAL CONST 13V reference voltage	13.8044869887	CAL CONST 22V range positive zero	398.16419
CAL CONST 22V range negative zero	398.16353	CAL CONST DAC Linearity	0.339586051834
CAL CONST 10KOHM true output resistance	9999.86063244	CAL CONST 10KOHM standard resistance	9998.85371776
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
By-22	Test date	08 May 2019 23:08	DUT Internal TEMP?
48.8	DUT Calibrations number?	41	Self-test result?
0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"	Firmware
9,2	Options	0,0	CAL? 72
0.983074668	CAL? 1,1	40000.6364	CAL? 2,1
7.07393775	CAL? Res 73	0.982949992	CAL 0 TEMP
40.37	CAL 10V TEMP	39.74	CAL 10KOhm TEMP
39.84	CAL? DCI	0.981967391	CAL DUMP

Service information

CAL DUMP
[(1, 40000.6364), (1, 7.07393775), (1, -3.53466152e-07), (1, -1.95143471e-07), (1, -3.47462792e-07), (1, -1.80143173e-07), (1, -2.77350503e-07), (1, -1.74837021e-07), (1, -1.44262621e-06), (1, -1.44262621e-06), (1, 1.41614166e-05), (1, 1.41614166e-05), (1, 0.418442601), (1, 0.416095271), (1, 0.415101632), (1, 0.411554101), (1, 0.406539615), (1, 0.350505794), (1, -0.269727339), (1, -0.299697043), (1, -0.299697043), (1, 0.462785238), (1, 0.459401888), (1, 0.457762426), (1, 0.455518566), (1, 0.454545729), (1, 0.45835373), (1, -0.359636452), (1, 0.389606157), (1, 0.389606157), (1, 0.000144373282), (1, 0.00156574972), (1, 0.00163852142), (1, 0.0170462073), (1, 0.0332718609), (1, 0.350505794), (1, 3.89606157), (1, 3.80615245), (1, 3.80615245), (1, 0.000158563502), (1, 0.0016307039), (1, 0.00171991639), (1, 0.0173641531), (1, 0.0355478838), (1, 0.311560706), (1, 4.1058495), (1, 4.31563743), (1, 4.31563743), (1, 419.0), (1, 41.0), (1, 4.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 40.3741326), (1, 39.7441669), (1, 39.8403962), (1, 93.0), (1, -4.59746284e-11), (1, -6.17409522e-11), (1, -3.83093021e-10), (1, -2.59511901e-09), (1, -1.87635742e-08), (1, -1.85633268e-07), (1, -1.70617061e-06), (1, -1.79036663e-05), (1, 0.982761489), (1, 0.983214814), (1, 0.983074668), (1, 0.982949992), (1, 0.982809883), (1, 1.00044487), (1, 1.00015549), (1, 1.00061684), (1, 1.00073149), (1, 1.00009893), (1, 1.0004359), (1, 1.00083477), (1, 1.00083477), (1, 1.00083477), (1, 1.00044487), (1, 1.00015553), (1, 1.00061688), (1, 1.00073187), (1, 1.00009974), (1, 1.0004359), (1, 1.00083477), (1, 1.00083477), (1, 1.00083477), (1, 0.981967391), (1, 0.982831681), (1, 0.982965004), (1, 0.985036364), (1, 0.982090802), (1, 0.981034491), (1, 0.981700077), (1, 1.0012031), (1, 95.0), (1, 110.0), (1, 4.93410265), (1, 3.96438689e-11), (1, -2.76273514e-12), (1, 9991499.18), (1, -0.00830037533), (1, 0.0188668736), (1, 0.999999792), (1, 1.00000016), (1, 1666.99786), (1, 16666.9947), (1, 5137.0), (1, 5135.0), (1, 5135.0), (1, 5136.0), (1, 5137.0), (1, 61644.0), (1, 61620.0), (1, 61620.0), (1, 61632.0), (1, 61644.0), (1, 5007.0), (1, 5008.0), (1, 5006.0), (1, 5005.0), (1, 2504.0), (1, 2503.0), (1, 2502.0), (1, 12512.0), (1, 22750.0), (1, 60084.0), (1, 60096.0), (1, 60072.0), (1, 60060.0), (1, 30048.0), (1, 30036.0), (1, 30024.0), (1, 150144.0), (1, 273000.0), (1, 5007.0), (1, 5008.0), (1, 5006.0), (1, 5005.0), (1, 2504.0), (1, 2503.0), (1, 2502.0), (1, 12512.0), (1, 22750.0), (1, 60084.0), (1, 60096.0), (1, 60072.0), (1, 60060.0), (1, 30048.0), (1, 30036.0), (1, 30024.0), (1, 150144.0), (1, 273000.0), (1, 280.0), (1, 280.0), (1, 280.0), (1, 280.0), (1, 280.0), (1, 280.0), (1, 280.0), (1, 280.0), (1, 3360.0), (1, 3360.0), (1, 3360.0), (1, 3360.0), (1, 3360.0), (1, 3360.0), (1, 3360.0), (1, 3360.0), (1, 48.8345092), (1, 48.8629962), (1, 48.8730153), (1, 109.0), (1, 108.0), (1, 105.0), (1, 104.0), (1, 109.0), (1, 110.0), (1, 99.0), (1, 98.0), (1, 104.0), (1, 104.0), (1, 109.0), (1, 110.0), (1, 110.0), (1, 110.0), (1, 110.0), (1, 110.0), (1, 110.0), (1, 2378.0), (1, 2377.0), (1, 1630.0), (1, 2377.0), (1, 2546.0), (1, 2551.0), (1, 130.0), (1, 127.0), (1, 126.0), (1, 127.0), (1, 126.0), (1, 127.0), (1, 127.0), (1, 127.0), (1, 127.0), (1, -0.00129918163), (1, -0.0121080922), (1, -0.125372478), (1, -1.22063019), (1, -12.0292041), (1, -122.61882), (1, -0.00128794809), (1, -0.0122825232), (1, -0.124444045), (1, -1.22157182), (1, -12.0404852), (1, -122.562804), (1, 1.00203981), (1, 1.00865786), (1, 1.02468717), (1, 1.01408317), (1, 1.00287518), (1, 1.0043547), (1, 211595.215), (1, 10.3685492), (1, 0.987039075), (1, 0.993640108), (1, 1.00943076), (1, 0.998984643), (1, 0.987943521), (1, 0.98940102), (1, 6.25600531e-06), (1, 6.44354926e-05), (1, 0.000644354926), (1, 0.00644354926), (1, 0.0644354926), (1, 0.644354926), (1, 1.02426934), (1, 1.00023749), (1, 1.00020277), (1, 1.00000057), (1, 54.0), (1, 33.0), (1, 33.0), (1, 33.0), (1, 34.0), (1, 46.0), (1, 46.0), (1, 14.0)]
Destructive overloads?
240, DESTRUCTIVE OVERLOADS valid 2941
Reference
Belden cable long to rear posts
DUT Condition
PreCal

Test procedure : $Id: hp3458a.py | Rev 1287 | 2019/05/09 04:04:24 clu $

Source procedure : $Id: f5720a.py | Rev 1288 | 2019/05/09 04:06:21 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	**-4.20 µV**	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	FAIL
Short 0.0 VDC	0.0000000E+00	**-4.32 µV**	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	FAIL
Short 00.0 VDC	0.0000000E+00	**-4.15 µV**	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	FAIL
Short 000.0 VDC	0.0000000E+00	**2.63 µV**	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	PASS
Short 0000.0 VDC	0.0000000E+00	**-10.22 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	**0.10000034**	7.27 ppm	0.099998723	0.10000128	3.386 ppm	5.50 ppm	PASS 26.52 %
-0.1 VDC (0.10 Range)	-0.1000000	**-0.10000068**	7.27 ppm	-0.10000128	-0.099998723	6.839 ppm	5.50 ppm	PASS 53.56 %
0.1 VDC (1.00 Range)	0.1000000	**0.10000025**	7.27 ppm	0.099999093	0.10000091	2.481 ppm	1.80 ppm	PASS 27.35 %
0.2 VDC (1.00 Range)	0.2000000	**0.20000079**	3.86 ppm	0.19999887	0.20000113	3.944 ppm	1.80 ppm	PASS 69.69 %
1.0 VDC (1.00 Range)	1.0000000	**1.0000035**	3.86 ppm	0.99999434	1.0000057	3.465 ppm	1.80 ppm	PASS 61.22 %
-0.1 VDC (1.00 Range)	-0.1000000	**-0.1000007**	7.27 ppm	-0.10000091	-0.099999093	7.021 ppm	1.80 ppm	PASS 77.41 %
-0.2 VDC (1.00 Range)	-0.2000000	**-0.20000132**	3.86 ppm	-0.20000113	-0.19999887	6.598 ppm	1.80 ppm	FAIL 116.57 %
-1.0 VDC (1.00 Range)	-1.0000000	**-1.0000039**	3.86 ppm	-1.0000057	-0.99999434	3.865 ppm	1.80 ppm	PASS 68.28 %
1.0 VDC (10.00 Range)	1.0000000	**1.0000036**	3.86 ppm	0.99999559	1.0000044	3.579 ppm	0.55 ppm	PASS 81.16 %
2.0 VDC (10.00 Range)	2.0000000	**2.0000078**	2.77 ppm	1.9999934	2.0000066	3.893 ppm	0.55 ppm	FAIL 117.25 %
10.0 VDC (10.00 Range)	10.0000000	**10.000041**	2.73 ppm	9.9999672	10.000033	4.088 ppm	0.55 ppm	FAIL 124.62 %
-1.0 VDC (10.00 Range)	-1.0000000	**-1.0000041**	3.86 ppm	-1.0000044	-0.99999559	4.146 ppm	0.55 ppm	PASS 94.02 %
-2.0 VDC (10.00 Range)	-2.0000000	**-2.0000091**	2.77 ppm	-2.0000066	-1.9999934	4.563 ppm	0.55 ppm	FAIL 137.44 %
-10.0 VDC (10.00 Range)	-10.0000000	**-10.000042**	2.73 ppm	-10.000033	-9.9999672	4.211 ppm	0.55 ppm	FAIL 128.38 %
10 VDC (100.00 Range)	10.0000000	**10.000067**	2.77 ppm	9.9999443	10.000056	6.718 ppm	2.80 ppm	FAIL 120.61 %
20 VDC (100.00 Range)	20.0000000	**20.000108**	3.73 ppm	19.999869	20.000131	5.389 ppm	2.80 ppm	PASS 82.53 %
100 VDC (100.00 Range)	100.0000000	**100.00043**	3.73 ppm	99.999347	100.00065	4.299 ppm	2.80 ppm	PASS 65.83 %
-10 VDC (100.00 Range)	-10.0000000	**-10.000033**	2.77 ppm	-10.000056	-9.9999443	3.272 ppm	2.80 ppm	PASS 58.74 %
-20 VDC (100.00 Range)	-20.0000000	**-20.000082**	3.73 ppm	-20.000131	-19.999869	4.097 ppm	2.80 ppm	PASS 62.75 %
-100 VDC (100.00 Range)	-100.0000000	**-100.0004**	3.73 ppm	-100.00065	-99.999347	4.039 ppm	2.80 ppm	PASS 61.86 %
100 VDC (1000.00 Range)	100.0000000	**100.00042**	3.73 ppm	99.999367	100.00063	4.244 ppm	2.60 ppm	PASS 67.05 %
200 VDC (1000.00 Range)	200.0000000	**200.00074**	3.73 ppm	199.99873	200.00127	3.708 ppm	2.60 ppm	PASS 58.57 %
1000 VDC (1000.00 Range)	1000.0000000	**1000.0074**	5.45 ppm	999.97995	1000.02	7.386 ppm	2.60 ppm	PASS 36.84 %
-100 VDC (1000.00 Range)	-100.0000000	**-100.0005**	3.73 ppm	-100.00063	-99.999367	4.982 ppm	2.60 ppm	PASS 78.70 %
-200 VDC (1000.00 Range)	-200.0000000	**-200.0008**	3.73 ppm	-200.00127	-199.99873	3.996 ppm	2.60 ppm	PASS 63.13 %
-1000 VDC (1000.00 Range)	-1000.0000000	**-1000.0084**	5.45 ppm	-1000.02	-999.97995	8.443 ppm	2.60 ppm	FAIL 213.75 %

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	0.9959396	**0.99989547**	32.0 ppm	9.9589976E-01	9.9597944E-01	3972.000 ppm	8.0 ppm	FAIL 9930.00 %
1.9 Ω	1.8925359	**1.9001058**	25.0 ppm	1.8924734E+00	1.8925984E+00	3999.895 ppm	8.0 ppm	FAIL 12120.89 %
10 Ω	9.999481	**9.9994792**	5.0 ppm	9.9993510E+00	9.9996110E+00	-0.179 ppm	8.0 ppm	PASS 1.38 %
19 Ω	18.999878	**18.999863**	4.0 ppm	1.8999688E+01	1.9000068E+01	-0.767 ppm	6.0 ppm	PASS 7.67 %
100 Ω	99.99811	**99.998451**	1.7 ppm	9.9997340E+01	9.9998880E+01	3.412 ppm	6.0 ppm	PASS 44.31 %
190 Ω	189.99798	**189.99816**	1.7 ppm	1.8999724E+02	1.8999872E+02	0.973 ppm	2.2 ppm	PASS 24.96 %
1.0 kΩ	1000.0021	**1000.0056**	1.7 ppm	9.9999820E+02	1.0000060E+03	3.514 ppm	2.2 ppm	PASS 90.12 %
1.9 kΩ	1899.9937	**1900.002**	1.7 ppm	1.8999863E+03	1.9000011E+03	4.362 ppm	2.2 ppm	FAIL 111.84 %
10 kΩ	9999.865	**9999.8934**	1.6 ppm	9.9998270E+03	9.9999030E+03	2.843 ppm	2.2 ppm	PASS 74.82 %
19 kΩ	18999.538	**18999.607**	1.7 ppm	1.8999464E+04	1.8999612E+04	3.610 ppm	2.2 ppm	PASS 92.57 %
100 kΩ	99999.06	**99999.091**	2.0 ppm	9.9998640E+04	9.9999480E+04	0.314 ppm	2.2 ppm	PASS 7.49 %
190 kΩ	189997.22	**189998.33**	2.0 ppm	1.8999475E+05	1.8999969E+05	5.847 ppm	11.0 ppm	PASS 44.98 %
1.0 MΩ	999979.7	**999983.19**	2.5 ppm	9.9996620E+05	9.9999320E+05	3.493 ppm	11.0 ppm	PASS 25.87 %
1.9 MΩ	1900004.7	**1900075.4**	3.0 ppm	1.8998945E+06	1.9001149E+06	37.227 ppm	55.0 ppm	PASS 64.18 %
10 MΩ	9999286	**9999505.7**	10.0 ppm	9.9986360E+06	9.9999360E+06	21.968 ppm	55.0 ppm	PASS 33.80 %
19 MΩ	18998925	**19000030**	20.0 ppm	1.8988856E+07	1.9008994E+07	58.166 ppm	510.0 ppm	PASS 10.97 %
100 MΩ	1.0000286E+08	**1.0000236E+08**	50.0 ppm	9.9946858E+07	1.0005886E+08	-4.967 ppm	510.0 ppm	PASS 0.89 %

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 -0.0000009 Ω**	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	**Range 0.0000563 Ω**	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	**Range 0.0000150 Ω**	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	**Range -0.0000150 Ω**	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	**Range -0.0035937 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	**Range 0.0509282 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	**Range 0.0899091 Ω**	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	**Range -0.0899091 Ω**	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	**Range -0.2397576 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 0.1110507 Ω**	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	**Range 0.1126361 Ω**	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	**Range 0.1129852 Ω**	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	**Range 0.1156712 Ω**	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	**Range 0.1096085 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	**Range -1.5398282 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	**Range -16.4832451 Ω**	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	**Range -22.7767958 Ω**	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	**Range -22.8367346 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	**0.99986027**	129.09	0.99955091	1.00044909	VAC	-139.729 ppm	320.0 ppm	PASS 31.11 %
1.0 VAC @ 1.0 MHz	1.0	**1.0215077**	0.2500 %	0.9874	1.0126	VAC	2.1508 %	1.0100 %	FAIL 170.70 %
10 VAC @ 40 Hz	10	**10.001251**	0.0073 %	9.8982682	10.1017318	VAC	0.0125 %	1.0100 %	PASS 1.23 %
10 VAC @ 200 Hz	10	**9.9999358**	73.18	9.9983682	10.0016318	VAC	-6.423 ppm	90.0 ppm	PASS 3.94 %
10 VAC @ 500 Hz	10	**9.999878**	73.18	9.9983682	10.0016318	VAC	-12.202 ppm	90.0 ppm	PASS 7.48 %
10 VAC @ 50.0 kHz	10	**9.9981254**	129.09	9.9955091	10.0044909	VAC	-187.460 ppm	320.0 ppm	PASS 41.74 %
10 VAC @ 1.0 MHz	10	**10.210025**	0.3000 %	9.869	10.131	VAC	2.1002 %	1.0100 %	FAIL 160.32 %

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	**0.0099995628**	0.0312 %	0.009991	0.010009	-0.0044 %	0.0600 %	PASS 4.79 %
0.01 V AC+DC @ 20 Hz	**0.0099990591**	0.0312 %	0.009991	0.010009	-0.0094 %	0.0600 %	PASS 10.31 %
0.01 V AC+DC @ 50 Hz	**0.0099986054**	0.0312 %	0.009994	0.010006	-0.0139 %	0.0310 %	PASS 22.41 %
0.01 V AC+DC @ 100 Hz	**0.0099981595**	0.0312 %	0.009994	0.010006	-0.0184 %	0.0310 %	PASS 29.58 %
0.01 V AC+DC @ 1.0 kHz	**0.0099986402**	0.0312 %	0.009994	0.010006	-0.0136 %	0.0310 %	PASS 21.85 %
0.01 V AC+DC @ 10.0 kHz	**0.010000423**	0.0312 %	0.009993	0.010007	0.0042 %	0.0410 %	PASS 5.86 %
0.01 V AC+DC @ 20.0 kHz	**0.010000517**	0.0312 %	0.009993	0.010007	0.0052 %	0.0410 %	PASS 7.15 %
0.01 V AC+DC @ 50.0 kHz	**0.009997539**	0.0447 %	0.009984	0.010016	-0.0246 %	0.1110 %	PASS 15.80 %
0.01 V AC+DC @ 100.0 kHz	**0.0099816358**	0.0773 %	0.009941	0.010059	-0.1836 %	0.5110 %	PASS 31.22 %
0.01 V AC+DC @ 300.0 kHz	**0.0098483437**	0.1500 %	0.009583	0.010417	-1.5166 %	4.0200 %	PASS 36.37 %
0.01 V AC+DC @ 500.0 kHz	**0.0096105122**	0.2500 %	0.006770	0.013230	-3.8949 %	32.0500 %	PASS 12.06 %
0.01 V AC+DC @ 1.0 MHz	**0.008618629**	0.4000 %	0.006755	0.013245	-13.8137 %	32.0500 %	PASS 42.57 %
0.03 V AC+DC @ 10 Hz	**0.030005921**	0.0121 %	0.029993	0.030007	0.0197 %	0.0110 %	PASS 85.31 %
0.03 V AC+DC @ 20 Hz	**0.030004437**	0.0121 %	0.029993	0.030007	0.0148 %	0.0110 %	PASS 63.93 %
0.03 V AC+DC @ 50 Hz	**0.030005195**	0.0121 %	0.029994	0.030006	0.0173 %	0.0090 %	PASS 81.93 %
0.03 V AC+DC @ 100 Hz	**0.030002602**	0.0121 %	0.029994	0.030006	0.0087 %	0.0090 %	PASS 41.04 %
0.03 V AC+DC @ 1.0 kHz	**0.030004178**	0.0121 %	0.029994	0.030006	0.0139 %	0.0090 %	PASS 65.89 %
0.03 V AC+DC @ 10.0 kHz	**0.030004072**	0.0121 %	0.029992	0.030008	0.0136 %	0.0160 %	PASS 48.24 %
0.03 V AC+DC @ 20.0 kHz	**0.030002873**	0.0121 %	0.029992	0.030008	0.0096 %	0.0160 %	PASS 34.03 %
0.03 V AC+DC @ 50.0 kHz	**0.030004339**	0.0256 %	0.029983	0.030017	0.0145 %	0.0320 %	PASS 25.10 %
0.03 V AC+DC @ 100.0 kHz	**0.030003699**	0.0591 %	0.029958	0.030042	0.0123 %	0.0820 %	PASS 8.74 %
0.03 V AC+DC @ 300.0 kHz	**0.030003085**	0.0964 %	0.029878	0.030122	0.0103 %	0.3100 %	PASS 2.53 %
0.03 V AC+DC @ 500.0 kHz	**0.030013246**	0.1500 %	0.029652	0.030348	0.0442 %	1.0100 %	PASS 3.81 %
0.03 V AC+DC @ 1.0 MHz	**0.030080149**	0.3000 %	0.029607	0.030393	0.2672 %	1.0100 %	PASS 20.39 %
0.1 V AC+DC @ 10 Hz	**0.099999786**	0.0121 %	0.099977	0.100023	-0.0002 %	0.0110 %	PASS 0.93 %
0.1 V AC+DC @ 20 Hz	**0.09999495**	0.0121 %	0.099977	0.100023	-0.0050 %	0.0110 %	PASS 21.83 %
0.1 V AC+DC @ 50 Hz	**0.099993281**	0.0121 %	0.099979	0.100021	-0.0067 %	0.0090 %	PASS 31.79 %
0.1 V AC+DC @ 100 Hz	**0.09999723**	0.0121 %	0.099979	0.100021	-0.0028 %	0.0090 %	PASS 13.11 %
0.1 V AC+DC @ 1.0 kHz	**0.099994502**	0.0121 %	0.099979	0.100021	-0.0055 %	0.0090 %	PASS 26.01 %
0.1 V AC+DC @ 10.0 kHz	**0.099992948**	0.0121 %	0.099972	0.100028	-0.0071 %	0.0160 %	PASS 25.06 %
0.1 V AC+DC @ 20.0 kHz	**0.099988888**	0.0121 %	0.099972	0.100028	-0.0111 %	0.0160 %	PASS 39.49 %
0.1 V AC+DC @ 50.0 kHz	**0.099994886**	0.0256 %	0.099942	0.100058	-0.0051 %	0.0320 %	PASS 8.87 %
0.1 V AC+DC @ 100.0 kHz	**0.09998437**	0.0591 %	0.099859	0.100141	-0.0156 %	0.0820 %	PASS 11.08 %
0.1 V AC+DC @ 300.0 kHz	**0.099975388**	0.0964 %	0.099594	0.100406	-0.0246 %	0.3100 %	PASS 6.06 %
0.1 V AC+DC @ 500.0 kHz	**0.1000047**	0.1500 %	0.098840	0.101160	0.0047 %	1.0100 %	PASS 0.40 %
0.1 V AC+DC @ 1.0 MHz	**0.10025046**	0.3000 %	0.098690	0.101310	0.2505 %	1.0100 %	PASS 19.12 %
0.3 V AC+DC @ 10 Hz	**0.30001124**	0.0050 %	0.299952	0.300048	0.0037 %	0.0110 %	PASS 23.48 %
0.3 V AC+DC @ 20 Hz	**0.29999852**	0.0050 %	0.299952	0.300048	-0.0005 %	0.0110 %	PASS 3.08 %
0.3 V AC+DC @ 50 Hz	**0.29999907**	0.0050 %	0.299958	0.300042	-0.0003 %	0.0090 %	PASS 2.22 %
0.3 V AC+DC @ 100 Hz	**0.29999373**	0.0050 %	0.299958	0.300042	-0.0021 %	0.0090 %	PASS 14.97 %
0.3 V AC+DC @ 1.0 kHz	**0.2999964**	0.0050 %	0.299958	0.300042	-0.0012 %	0.0090 %	PASS 8.60 %
0.3 V AC+DC @ 10.0 kHz	**0.29998455**	0.0050 %	0.299937	0.300063	-0.0052 %	0.0160 %	PASS 24.58 %
0.3 V AC+DC @ 20.0 kHz	**0.29998701**	0.0050 %	0.299937	0.300063	-0.0043 %	0.0160 %	PASS 20.66 %
0.3 V AC+DC @ 50.0 kHz	**0.30003785**	0.0085 %	0.299878	0.300122	0.0126 %	0.0320 %	PASS 31.12 %
0.3 V AC+DC @ 100.0 kHz	**0.30008508**	0.0138 %	0.299713	0.300287	0.0284 %	0.0820 %	PASS 29.60 %
0.3 V AC+DC @ 300.0 kHz	**0.30060529**	0.0425 %	0.298942	0.301058	0.2018 %	0.3100 %	PASS 57.23 %
0.3 V AC+DC @ 500.0 kHz	**0.30137888**	0.1100 %	0.296640	0.303360	0.4596 %	1.0100 %	PASS 41.04 %
0.3 V AC+DC @ 1.0 MHz	**0.30362518**	0.1800 %	0.296430	0.303570	1.2084 %	1.0100 %	FAIL 101.55 %
1.0 V AC+DC @ 10 Hz	**1.0000354**	0.0050 %	0.999840	1.000160	0.0035 %	0.0110 %	PASS 22.16 %
1.0 V AC+DC @ 20 Hz	**0.99999109**	0.0050 %	0.999840	1.000160	-0.0009 %	0.0110 %	PASS 5.58 %
1.0 V AC+DC @ 50 Hz	**0.99998289**	0.0050 %	0.999860	1.000140	-0.0017 %	0.0090 %	PASS 12.26 %
1.0 V AC+DC @ 100 Hz	**0.99997952**	0.0050 %	0.999860	1.000140	-0.0020 %	0.0090 %	PASS 14.67 %
1.0 V AC+DC @ 1.0 kHz	**0.99998314**	0.0050 %	0.999860	1.000140	-0.0017 %	0.0090 %	PASS 12.08 %
1.0 V AC+DC @ 10.0 kHz	**0.9999319**	0.0050 %	0.999790	1.000210	-0.0068 %	0.0160 %	PASS 32.50 %
1.0 V AC+DC @ 20.0 kHz	**0.99992379**	0.0050 %	0.999790	1.000210	-0.0076 %	0.0160 %	PASS 36.37 %
1.0 V AC+DC @ 50.0 kHz	**1.0000592**	0.0085 %	0.999595	1.000405	0.0059 %	0.0320 %	PASS 14.60 %
1.0 V AC+DC @ 100.0 kHz	**1.0002051**	0.0138 %	0.999042	1.000958	0.0205 %	0.0820 %	PASS 21.41 %
1.0 V AC+DC @ 300.0 kHz	**1.0019902**	0.0425 %	0.996475	1.003525	0.1990 %	0.3100 %	PASS 56.45 %
1.0 V AC+DC @ 500.0 kHz	**1.0045986**	0.1100 %	0.988800	1.011200	0.4599 %	1.0100 %	PASS 41.06 %
1.0 V AC+DC @ 1.0 MHz	**1.0121822**	0.1800 %	0.988100	1.011900	1.2182 %	1.0100 %	FAIL 102.37 %
3.0 V AC+DC @ 10 Hz	**3.0001557**	0.0048 %	2.999525	3.000475	0.0052 %	0.0110 %	PASS 32.80 %

3.0 V AC+DC @ 20 Hz	**3.0000366**	0.0048 %	2.999525	3.000475	0.0012 %	0.0110 %	PASS 7.71 %
3.0 V AC+DC @ 50 Hz	**3.0000155**	0.0048 %	2.999585	3.000415	0.0005 %	0.0090 %	PASS 3.73 %
3.0 V AC+DC @ 100 Hz	**2.9999707**	0.0048 %	2.999585	3.000415	-0.0010 %	0.0090 %	PASS 7.06 %
3.0 V AC+DC @ 1.0 kHz	**3.0000239**	0.0048 %	2.999585	3.000415	0.0008 %	0.0090 %	PASS 5.76 %
3.0 V AC+DC @ 10.0 kHz	**2.9998658**	0.0048 %	2.999375	3.000625	-0.0045 %	0.0160 %	PASS 21.49 %
3.0 V AC+DC @ 20.0 kHz	**2.9998676**	0.0048 %	2.999375	3.000625	-0.0044 %	0.0160 %	PASS 21.20 %
3.0 V AC+DC @ 50.0 kHz	**3.0001897**	0.0085 %	2.998784	3.001216	0.0063 %	0.0320 %	PASS 15.59 %
3.0 V AC+DC @ 100.0 kHz	**2.9998633**	0.0121 %	2.997176	3.002824	-0.0046 %	0.0820 %	PASS 4.84 %
3.0 V AC+DC @ 300.0 kHz	**2.9999059**	0.0336 %	2.989691	3.010309	-0.0031 %	0.3100 %	PASS 0.91 %
3.0 V AC+DC @ 500.0 kHz	**3.0062779**	0.1100 %	2.966400	3.033600	0.2093 %	1.0100 %	PASS 18.68 %
3.0 V AC+DC @ 1.0 MHz	**3.036241**	0.1700 %	2.964600	3.035400	1.2080 %	1.0100 %	FAIL 102.38 %
10.0 V AC+DC @ 10 Hz	**10.000423**	0.0048 %	9.998418	10.001582	0.0042 %	0.0110 %	PASS 26.73 %
10.0 V AC+DC @ 20 Hz	**10.000016**	0.0048 %	9.998418	10.001582	0.0002 %	0.0110 %	PASS 1.03 %
10.0 V AC+DC @ 50 Hz	**9.9999588**	0.0048 %	9.998618	10.001382	-0.0004 %	0.0090 %	PASS 2.98 %
10.0 V AC+DC @ 100 Hz	**9.9998731**	0.0048 %	9.998618	10.001382	-0.0013 %	0.0090 %	PASS 9.18 %
10.0 V AC+DC @ 1.0 kHz	**9.9999136**	0.0048 %	9.998618	10.001382	-0.0009 %	0.0090 %	PASS 6.25 %
10.0 V AC+DC @ 10.0 kHz	**9.999519**	0.0048 %	9.997918	10.002082	-0.0048 %	0.0160 %	PASS 23.10 %
10.0 V AC+DC @ 20.0 kHz	**9.9994297**	0.0048 %	9.997918	10.002082	-0.0057 %	0.0160 %	PASS 27.39 %
10.0 V AC+DC @ 50.0 kHz	**10.000027**	0.0085 %	9.995945	10.004054	0.0003 %	0.0320 %	PASS 0.67 %
10.0 V AC+DC @ 100.0 kHz	**9.9987088**	0.0121 %	9.990586	10.009414	-0.0129 %	0.0820 %	PASS 13.72 %
10.0 V AC+DC @ 300.0 kHz	**9.9994891**	0.0336 %	9.965636	10.034364	-0.0051 %	0.3100 %	PASS 1.49 %
10.0 V AC+DC @ 500.0 kHz	**10.020491**	0.1100 %	9.888000	10.112000	0.2049 %	1.0100 %	PASS 18.30 %
10.0 V AC+DC @ 1.0 MHz	**10.119791**	0.1700 %	9.882000	10.118000	1.1979 %	1.0100 %	FAIL 101.52 %
30 V AC+DC @ 10 Hz	**30.0014**	0.0060 %	29.990995	30.009005	0.0047 %	0.0240 %	PASS 15.55 %
30 V AC+DC @ 20 Hz	**30.000237**	0.0060 %	29.990995	30.009005	0.0008 %	0.0240 %	PASS 2.63 %
30 V AC+DC @ 50 Hz	**29.999994**	0.0060 %	29.991595	30.008405	-0.0000 %	0.0220 %	PASS 0.07 %
30 V AC+DC @ 100 Hz	**30.000151**	0.0060 %	29.991595	30.008405	0.0005 %	0.0220 %	PASS 1.79 %
30 V AC+DC @ 1.0 kHz	**30.000073**	0.0060 %	29.991595	30.008405	0.0002 %	0.0220 %	PASS 0.87 %
30 V AC+DC @ 10.0 kHz	**29.999344**	0.0060 %	29.991595	30.008405	-0.0022 %	0.0220 %	PASS 7.81 %
30 V AC+DC @ 20.0 kHz	**29.998975**	0.0060 %	29.991595	30.008405	-0.0034 %	0.0220 %	PASS 12.19 %
30 V AC+DC @ 50.0 kHz	**30.002293**	0.0060 %	29.987095	30.012905	0.0076 %	0.0370 %	PASS 17.77 %
30 V AC+DC @ 100.0 kHz	**29.998733**	0.0174 %	29.958191	30.041809	-0.0042 %	0.1220 %	PASS 3.03 %
30 V AC+DC @ 300.0 kHz	**29.993318**	0.0991 %	29.847273	30.152727	-0.0223 %	0.4100 %	PASS 4.37 %
30 V AC+DC @ 500.0 kHz	**30.011468**	0.5200 %	29.391000	30.609000	0.0382 %	1.5100 %	PASS 1.88 %
100.0 V AC+DC @ 10 Hz	**100.003**	0.0060 %	99.969982	100.030018	0.0030 %	0.0240 %	PASS 9.97 %
100.0 V AC+DC @ 20 Hz	**99.999496**	0.0060 %	99.969982	100.030018	-0.0005 %	0.0240 %	PASS 1.68 %
100.0 V AC+DC @ 50 Hz	**99.998515**	0.0060 %	99.971982	100.028018	-0.0015 %	0.0220 %	PASS 5.30 %
100.0 V AC+DC @ 100 Hz	**99.998062**	0.0060 %	99.971982	100.028018	-0.0019 %	0.0220 %	PASS 6.92 %
100.0 V AC+DC @ 1.0 kHz	**99.998469**	0.0060 %	99.971982	100.028018	-0.0015 %	0.0220 %	PASS 5.47 %
100.0 V AC+DC @ 10.0 kHz	**99.997943**	0.0060 %	99.971982	100.028018	-0.0021 %	0.0220 %	PASS 7.34 %
100.0 V AC+DC @ 20.0 kHz	**99.995856**	0.0060 %	99.971982	100.028018	-0.0041 %	0.0220 %	PASS 14.79 %
100.0 V AC+DC @ 50.0 kHz	**100.0019**	0.0095 %	99.953455	100.046545	0.0019 %	0.0370 %	PASS 4.08 %
100.0 V AC+DC @ 100.0 kHz	**99.986561**	0.0174 %	99.860636	100.139364	-0.0134 %	0.1220 %	PASS 9.64 %
300.0 V AC+DC @ 50 Hz	**299.98574**	0.0074 %	299.851908	300.148092	-0.0048 %	0.0420 %	PASS 9.56 %
300.0 V AC+DC @ 100 Hz	**299.98691**	0.0074 %	299.851908	300.148092	-0.0044 %	0.0420 %	PASS 8.78 %
300.0 V AC+DC @ 1.0 kHz	**299.97821**	0.0074 %	299.851908	300.148092	-0.0073 %	0.0420 %	PASS 14.61 %
750.0 V AC+DC @ 50 Hz	**749.97329**	0.0074 %	749.629770	750.370230	-0.0036 %	0.0420 %	PASS 7.08 %
750.0 V AC+DC @ 100 Hz	**749.9716**	0.0074 %	749.629770	750.370230	-0.0038 %	0.0420 %	PASS 7.53 %
750.0 V AC+DC @ 1.0 kHz	**749.95936**	0.0074 %	749.629770	750.370230	-0.0054 %	0.0420 %	PASS 10.78 %

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	**-1.3906176E-13**						INFO
50 nADC	5E-08	**-3.8375697E-13**						INFO
100 nADC	1E-07	**-4.3590513E-13**	71.82 ppm	1.000482E-07	9.995182E-08	-1000004.359 ppm	410 ppm	FAIL 207547.29 %
-100 nADC	-1E-07	**-5.7630402E-13**	71.82 ppm	-1.000482E-07	-9.995182E-08	-999994.237 ppm	410 ppm	FAIL 207545.19 %
-50 nADC	-5E-08	**-6.6722902E-13**						INFO
Zero µADC	0	**-6.5519483E-13**						INFO
0.5 µADC	5E-07	**-2.1212942E-12**	71.82 ppm	5.002409E-07	4.997591E-07	-1000004.243 ppm	410 ppm	FAIL 207547.27 %
1.0 µADC	1E-06	**-2.1583854E-12**	71.82 ppm	1.000482E-06	9.995182E-07	-1000002.158 ppm	410 ppm	FAIL 207546.83 %
-1.0 µADC	-1E-06	**-3.483993E-12**	71.82 ppm	-1.000482E-06	-9.995182E-07	-999996.516 ppm	410 ppm	FAIL 207545.66 %
-0.5 µADC	-5E-07	**-3.0276099E-12**	71.82 ppm	-5.002409E-07	-4.997591E-07	-999993.945 ppm	410 ppm	FAIL 207545.13 %
Zero 00 µADC	0	**-7.4478269E-13**						INFO
5 µADC	5E-06	**1.8434801E-11**	71.82 ppm	4.997591E-06	5.002409E-06	-999996.313 ppm	410 ppm	FAIL 207545.62 %
10 µADC	1E-05	**2.2402084E-11**	71.82 ppm	9.995182E-06	1.000482E-05	-999997.760 ppm	410 ppm	FAIL 207545.92 %
-10 µADC	-1E-05	**5.4787085E-12**	71.82 ppm	-9.995182E-06	-1.000482E-05	-1000000.548 ppm	410 ppm	FAIL 207546.50 %
-5 µADC	-5E-06	**1.1166072E-11**	71.82 ppm	-4.997591E-06	-5.002409E-06	-1000002.233 ppm	410 ppm	FAIL 207546.85 %
Zero 000 µADC	0	**-7.6082828E-13**						INFO
50 µADC	5E-05	**7.9185602E-10**	71.82 ppm	4.997591E-05	5.002409E-05	-999984.163 ppm	410 ppm	FAIL 207543.10 %
100 µADC	0.0001	**1.0439941E-09**	71.82 ppm	9.995182E-05	0.0001000482	-999989.560 ppm	410 ppm	FAIL 207544.22 %
-100 µADC	-0.0001	**1.0650222E-09**	71.82 ppm	-9.995182E-05	-0.0001000482	-1000010.650 ppm	410 ppm	FAIL 207548.60 %
-50 µADC	-5E-05	**3.2983541E-10**	71.82 ppm	-4.997591E-05	-5.002409E-05	-1000006.597 ppm	410 ppm	FAIL 207547.76 %
Zero mADC	0	**-8.3303342E-13**						INFO
0.5 mADC	0.0005	**-1.193792E-07**	33.64 ppm	0.0005002218	0.0004997782	-1000238.758 ppm	410 ppm	FAIL 225461.81 %
1.0 mADC	0.001	**-7.6957097E-08**	33.64 ppm	0.001000444	0.0009995564	-1000076.957 ppm	410 ppm	FAIL 225425.34 %
-1.0 mADC	-0.001	**-1.5545394E-07**	33.64 ppm	-0.001000084	-0.0009999164	-999844.546 ppm	50 ppm	FAIL 1195414.33 %
-0.5 mADC	-0.0005	**-1.3472246E-07**	33.64 ppm	-0.0005000418	-0.0004999582	-999730.555 ppm	50 ppm	FAIL 1195278.04 %
Zero 00 mADC	0	**-9.7209518E-13**						INFO
5 mADC	0.005	**-8.3384143E-07**	32.27 ppm	0.005000411	0.004999589	-1000166.768 ppm	50 ppm	FAIL 1215712.61 %
10 mADC	0.01	**7.4269135E-07**	32.27 ppm	0.009999177	0.01000082	-999925.731 ppm	50 ppm	FAIL 1215419.63 %
-10 mADC	-0.01	**-6.6112203E-06**	32.27 ppm	-0.01000049	-0.009999507	-999338.878 ppm	17 ppm	FAIL 2028290.80 %
-5 mADC	-0.005	**-4.8082803E-06**	32.27 ppm	-0.005000246	-0.004999754	-999038.344 ppm	17 ppm	FAIL 2027680.83 %
Zero 000 mADC	0	**-1.0750544E-12**						INFO
50 mADC	0.05	**8.3244546E-05**	53.32 ppm	0.04999653	0.05000347	-998335.109 ppm	16 ppm	FAIL 1440183.37 %
100 mADC	0.1	**0.00017374869**	53.32 ppm	0.09999327	0.1000067	-998262.513 ppm	14 ppm	FAIL 1482861.72 %
-100 mADC	-0.1	**-0.00018268153**	53.32 ppm	-0.1000067	-0.09999327	-998173.185 ppm	14 ppm	FAIL 1482729.03 %
-50 mADC	-0.05	**-9.3590716E-05**	53.32 ppm	-0.05000347	-0.04999653	-998128.186 ppm	16 ppm	FAIL 1439884.86 %
Zero ADC	0	**-1.0456375E-12**						INFO
0.5 ADC	0.5	**0.0017140779**	115.22 ppm	0.4999354	0.5000646	-996571.844 ppm	14 ppm	FAIL 771221.05 %
1.0 ADC	1	**0.003476618**	115.22 ppm	0.9998708	1.000129	-996523.382 ppm	14 ppm	FAIL 771183.55 %
-1.0 ADC	-1	**-0.0035398336**	115.22 ppm	-1.000129	-0.9998708	-996460.166 ppm	14 ppm	FAIL 771134.63 %
-0.5 ADC	-0.5	**-0.0017862468**	115.22 ppm	-0.5000646	-0.4999354	-996427.506 ppm	14 ppm	FAIL 771109.35 %

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	**1.0844093E-07**	0.0160 %	9.9893955e-06	1.00106045e-05	-989155.907 ppm	0.0900 %	INFO
10 µA AC @ 50 Hz	1e-05	**1.0440032E-07**	0.0160 %	9.9893955e-06	1.00106045e-05	-989559.968 ppm	0.0900 %	INFO
10 µA AC @ 50 Hz	1e-05	**1.0244181E-07**	0.0160 %	9.9893955e-06	1.00106045e-05	-989755.819 ppm	0.0900 %	INFO
10 µA AC @ 50 Hz	1e-05	**1.1157132E-07**	0.0160 %	9.9893955e-06	1.00106045e-05	-988842.868 ppm	0.0900 %	INFO
10 µA AC @ 50 Hz	1e-05	**4.8637147E-07**	0.0133 %	9.9896682e-06	1.00103318e-05	-951362.853 ppm	0.0900 %	INFO
10 µA AC @ 50 Hz	1e-05	**0.0039731028**	0.0133 %	9.9906682e-06	1.00093318e-05	396310282.000 ppm	0.0800 %	INFO
10 µA AC @ 60 Hz	1e-05	**1.0154027E-07**	0.0133 %	9.9896682e-06	1.00103318e-05	-989845.973 ppm	0.0900 %	INFO
10 µA AC @ 60 Hz	1e-05	**1.0319744E-07**	0.0133 %	9.9896682e-06	1.00103318e-05	-989680.256 ppm	0.0900 %	INFO
10 µA AC @ 60 Hz	1e-05	**1.00282E-07**	0.0129 %	9.9897136e-06	1.00102864e-05	-989971.800 ppm	0.0900 %	INFO
10 µA AC @ 60 Hz	1e-05	**1.0100869E-07**	0.0129 %	9.9897136e-06	1.00102864e-05	-989899.131 ppm	0.0900 %	INFO
10 µA AC @ 60 Hz	1e-05	**4.8649217E-07**	0.0288 %	9.9881182e-06	1.00118818e-05	-951350.783 ppm	0.0900 %	INFO
10 µA AC @ 60 Hz	1e-05	**0.0039770552**	0.0288 %	9.9891182e-06	1.00108818e-05	396705516.000 ppm	0.0800 %	INFO
10 µA AC @ 1.0 kHz	1e-05	**1.0475912E-07**	0.0160 %	9.9893955e-06	1.00106045e-05	-989524.088 ppm	0.0900 %	INFO
10 µA AC @ 1.0 kHz	1e-05	**9.3871581E-08**	0.0160 %	9.9893955e-06	1.00106045e-05	-990612.842 ppm	0.0900 %	INFO
10 µA AC @ 1.0 kHz	1e-05	**1.0093635E-07**	0.0160 %	9.9893955e-06	1.00106045e-05	-989906.365 ppm	0.0900 %	INFO
10 µA AC @ 1.0 kHz	1e-05	**1.1062927E-07**	0.0160 %	9.9893955e-06	1.00106045e-05	-988937.073 ppm	0.0900 %	INFO
10 µA AC @ 1.0 kHz	1e-05	**4.5724888E-07**	0.0133 %	9.9896682e-06	1.00103318e-05	-954275.112 ppm	0.0900 %	INFO
10 µA AC @ 1.0 kHz	1e-05	**0.003326584**	0.0133 %	9.9936682e-06	1.00063318e-05	331658398.900 ppm	0.0500 %	INFO

Test completed

Test date	09 May 2019 08:55
UUT Internal TEMP?	48.9
Destructive overloads?	245, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated