

Manufacturer	HEWLETT-PACKARD	Calibration date	March 13 2019
Model Number	3458A	Ambient Temperature	24.30 °C
Serial	MM-GPIB3	Relative Humidity	53.90 %
ID Number	KS3458A	Pressure	1019.30
Notes	Test front ports	Test type	First

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

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

MFC last calibrated	155.0 days ago	MFC since DCV ZERO	1.0 days ago
MFC since WBFLAT	11393.0 days ago	MFC since WBGAIN	155.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2018-10-09 00:00:00
MFC Calibrate date Zero	2019-03-12 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	2018-10-09 00:00:00	CAL CONST 6.5V reference voltage	6.89136043221
CAL CONST 13V reference voltage	13.7948160154	CAL CONST 22V range positive zero	398.17894
CAL CONST 22V range negative zero	398.17857	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	10000.0833326	CAL CONST 10KOHM standard resistance	10000.4488527
CAL CONST, Zero calibration temperature	23.0	CAL CONST, All calibration temp	23.0

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

Meter Info	HP3458A	Last calibration date	7/24/2018
CALSTR?	""	Test date	13 March 2019 18:12
DUT Internal TEMP?	37.6	DUT Calibrations number?	62
Self-test result?	0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"
Firmware	9,1	Options	1,0
CAL? 72	0.988089747	CAL? 1,1	40000.5451
CAL? 2,1	7.09585414	CAL? Res 73	0.987478265
CAL 0 TEMP	39.39	CAL 10V TEMP	39.58
CAL 10KOhm TEMP	39.07	CAL? DCI	0.986666349

Service information

CAL DUMP	
<pre> [(1, 40000.5451), (1, 7.09585414), (1, -1.61334573e-07), (1, 1.77715004e-07), (1, -1.87574584e-07), (1, 2.09718805e-07), (1, 3.301864e-07), (1, 7.83554295e-07), (1, -9.34268182e-05), (1, -9.34268182e-05), (1, -3.5208588e-05), (1, -3.5208588e-05), (1, 0.398471984), (1, 0.398309335), (1, 0.398128744), (1, 0.396539299), (1, 0.403710193), (1, 0.529670687), (1, 0.792829163), (1, 0.864904542), (1, 0.864904542), (1, 0.576998368), (1, 0.577134481), (1, 0.577040187), (1, 0.579178863), (1, 0.590869201), (1, 0.637766746), (1, 1.11716837), (1, 1.83792215), (1, 1.83792215), (1, 0.000338713354), (1, 0.00319995959), (1, 0.00343805211), (1, 0.0347655534), (1, 0.0733003429), (1, 0.655782755), (1, 7.31565092), (1, 7.27961323), (1, 7.27961323), (1, 0.000184742673), (1, 0.00183052835), (1, 0.00198795096), (1, 0.0204554093), (1, 0.0465376133), (1, 0.446797042), (1, 3.45961817), (1, 4.93716343), (1, 4.93716343), (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, 39.3942711), (1, 39.5756928), (1, 39.0665399), (1, 176.0), (1, -5.45527776e-12), (1, -1.1060219e-11), (1, -8.52986267e-11), (1, -5.51424536e-10), (1, -3.53297033e-09), (1, -3.36854479e-08), (1, -3.01538391e-07), (1, -2.77330894e-06), (1, 0.986816748), (1, 0.987492831), (1, 0.988089747), (1, 0.987478265), (1, 0.988075172), (1, 1.00203906), (1, 1.00198564), (1, 1.00267212), (1, 1.0021233), (1, 1.0024002), (1, 1.00273957), (1, 1.00289736), (1, 1.00289736), (1, 1.00289736), (1, 1.00203906), (1, 1.00198568), (1, 1.00267216), (1, 1.00212358), (1, 1.00240092), (1, 1.00273957), (1, 1.00289736), (1, 1.00289736), (1, 1.00289736), (1, 0.986666349), (1, 0.986878475), (1, 0.986928672), (1, 0.988376376), (1, 0.98645825), (1, 0.986324316), (1, 0.983664359), (1, 0.972371991), (1, 76.0), (1, 111.0), (1, 5.00964071), (1, 3.51357423e-11), (1, -8.10331564e-12), (1, 10001282.6), (1, -0.0068104976), (1, -0.0124388229), (1, 0.99999952), (1, 1.00000007), (1, 1666.98469), (1, 1666.9775), (1, 5116.0), (1, 5112.0), (1, 5109.0), (1, 5112.0), (1, 5109.0), (1, 61392.0), (1, 61344.0), (1, 61308.0), (1, 61344.0), (1, 61308.0), (1, 4999.0), (1, 4999.0), (1, 4995.0), (1, 4998.0), (1, 2498.0), (1, 2497.0), (1, 2497.0), (1, 12486.0), (1, 22703.0), (1, 59988.0), (1, 59988.0), (1, 59940.0), (1, 59976.0), (1, 29976.0), (1, 29964.0), (1, 29964.0), (1, 149832.0), (1, 272436.0), (1, 4999.0), (1, 4999.0), (1, 4995.0), (1, 4998.0), (1, 2498.0), (1, 2497.0), (1, 2497.0), (1, 12486.0), (1, 22703.0), (1, 59988.0), (1, 59988.0), (1, 59940.0), (1, 59976.0), (1, 29976.0), (1, 29964.0), (1, 29964.0), (1, 149832.0), (1, 272436.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 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, 3348.0), (1, 37.5816044), (1, 37.5504922), (1, 37.555903), (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, 137.0), (1, 2285.0), (1, 2283.0), (1, 2269.0), (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, -0.00165246866), (1, -0.0189253427), (1, -0.187331138), (1, -1.86745472), (1, -18.3327773), (1, -184.307726), (1, -0.00180339664), (1, -0.019159003), (1, -0.185959623), (1, -1.87133284), (1, -18.3422943), (1, -184.424116), (1, 0.994116577), (1, 1.00100392), (1, 0.984434063), (1, 0.981878127), (1, 0.9732375), (1, 0.97219387), (1, 109419.485), (1, 10.37173), (1, 0.982170526), (1, 0.989056785), (1, 0.97268469), (1, 0.970159259), (1, 0.961621759), (1, 0.960590584), (1, 3.88209636e-06), (1, 3.99847473e-05), (1, 0.000399847473), (1, 0.00399847473), (1, 0.399847473), (1, 1.02730496), (1, 1.00020295), (1, 0.999834969), (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)] </pre>	
Destructive overloads?	
77, DESTRUCTIVE OVERLOADS valid 2941	
Reference	
Direct MFC test, verification 5720MMA	
DUT Condition	
Test after reassembly	

Test procedure : \$Id: hp3458a.py | Rev 1201 | 2019/03/13 22:05:56 MM \$

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

Main DC Voltage ranges performance test.

Checks zero offset and +/-FS calibration on all ranges

The following test for the offset voltage specification using MFC 0V source in 4-wire ext sense mode as reference.

DCV gain range points verify gain of the DC voltage function, using uncorrected 24-hour MFC output. DC voltage offset of DUT is nulled before FS tests.

Test Description	Expected Value	Measured Value	Measurement Uncertainty	Lower Limit	Upper Limit	Deviation	DUT Spec	Test Status
Short 0 mVDC	0.000000E+00	0.21 µV	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	PASS
Short 0.0 VDC	0.000000E+00	0.26 µV	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	PASS
Short 00.0 VDC	0.000000E+00	0.51 µV	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	PASS
Short 000.0 VDC	0.000000E+00	15.31 µV	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	FAIL
Short 0000.0 VDC	0.000000E+00	1.76 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	0.1	7.27 ppm	0.099998723	0.10000128	0.012 ppm	5.50 ppm	PASS 0.09 %
-0.1 VDC (0.10 Range)	-0.1000000	-0.099999845	7.27 ppm	-0.10000128	-0.099998723	-1.548 ppm	5.50 ppm	PASS 12.12 %
0.1 VDC (1.00 Range)	0.1000000	0.10000007	7.27 ppm	0.099999093	0.10000091	0.701 ppm	1.80 ppm	PASS 7.72 %
0.2 VDC (1.00 Range)	0.2000000	0.20000021	3.86 ppm	0.19999887	0.20000113	1.051 ppm	1.80 ppm	PASS 18.56 %
1.0 VDC (1.00 Range)	1.0000000	0.9999999	3.86 ppm	0.99999434	1.0000057	-0.095 ppm	1.80 ppm	PASS 1.68 %
-0.1 VDC (1.00 Range)	-0.1000000	-0.099999901	7.27 ppm	-0.10000091	-0.099999093	-0.988 ppm	1.80 ppm	PASS 10.90 %
-0.2 VDC (1.00 Range)	-0.2000000	-0.19999987	3.86 ppm	-0.20000113	-0.19999887	-0.634 ppm	1.80 ppm	PASS 11.21 %
-1.0 VDC (1.00 Range)	-1.0000000	-0.99999905	3.86 ppm	-1.0000057	-0.99999434	-0.946 ppm	1.80 ppm	PASS 16.71 %
1.0 VDC (10.00 Range)	1.0000000	0.99999967	3.86 ppm	0.99999559	1.0000044	-0.335 ppm	0.55 ppm	PASS 7.59 %
2.0 VDC (10.00 Range)	2.0000000	1.9999985	2.77 ppm	1.9999934	2.0000066	-0.756 ppm	0.55 ppm	PASS 22.79 %
10.0 VDC (10.00 Range)	10.0000000	9.9999963	2.73 ppm	9.9999672	10.000033	-0.369 ppm	0.55 ppm	PASS 11.24 %
-1.0 VDC (10.00 Range)	-1.0000000	-0.99999909	3.86 ppm	-1.0000044	-0.99999559	-0.913 ppm	0.55 ppm	PASS 20.71 %
-2.0 VDC (10.00 Range)	-2.0000000	-1.9999976	2.77 ppm	-2.0000066	-1.9999934	-1.187 ppm	0.55 ppm	PASS 35.75 %
-10.0 VDC (10.00 Range)	-10.0000000	-9.9999944	2.73 ppm	-10.000033	-9.9999672	-0.559 ppm	0.55 ppm	PASS 17.05 %
10 VDC (100.00 Range)	10.0000000	10.000028	2.77 ppm	9.9999443	10.000056	2.819 ppm	2.80 ppm	PASS 50.61 %
20 VDC (100.00 Range)	20.0000000	20.000021	3.73 ppm	19.999869	20.000131	1.050 ppm	2.80 ppm	PASS 16.07 %
100 VDC (100.00 Range)	100.0000000	99.999948	3.73 ppm	99.999347	100.00065	-0.524 ppm	2.80 ppm	PASS 8.03 %
-10 VDC (100.00 Range)	-10.0000000	-9.9999758	2.77 ppm	-10.000056	-9.9999443	-2.418 ppm	2.80 ppm	PASS 43.41 %
-20 VDC (100.00 Range)	-20.0000000	-19.999969	3.73 ppm	-20.000131	-19.999869	-1.573 ppm	2.80 ppm	PASS 24.09 %
-100 VDC (100.00 Range)	-100.0000000	-99.999915	3.73 ppm	-100.00065	-99.999347	-0.854 ppm	2.80 ppm	PASS 13.08 %
100 VDC (1000.00 Range)	100.0000000	99.999928	3.73 ppm	99.999367	100.00063	-0.720 ppm	2.60 ppm	PASS 11.37 %
200 VDC (1000.00 Range)	200.0000000	199.99977	3.73 ppm	199.99873	200.00127	-1.173 ppm	2.60 ppm	PASS 18.53 %
1000 VDC (1000.00 Range)	1000.0000000	1000.0007	5.45 ppm	999.97995	1000.02	0.681 ppm	2.60 ppm	PASS 3.40 %
-100 VDC (1000.00 Range)	-100.0000000	-100.00003	3.73 ppm	-100.00063	-99.999367	0.345 ppm	2.60 ppm	PASS 5.46 %
-200 VDC (1000.00 Range)	-200.0000000	-199.99981	3.73 ppm	-200.00127	-199.99873	-0.967 ppm	2.60 ppm	PASS 15.27 %
-1000 VDC (1000.00 Range)	-1000.0000000	-1000.0012	5.45 ppm	-1000.02	-999.97995	1.230 ppm	2.60 ppm	PASS 31.14 %

DCV Linearity	1V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1.0999999	1.0999999	1.0999991	2.73 ppm	1.099996	1.100004	-0.76 ppm	0.55 ppm	PASS 23.09 %
0.9999999	0.9999999	0.9999992	2.73 ppm	0.9999966	1.000003	-0.73 ppm	0.55 ppm	PASS 22.11 %
0.9000000	0.9000000	0.8999994	2.73 ppm	0.899997	0.900003	-0.62 ppm	0.55 ppm	PASS 19.04 %
0.8888888	0.8888888	0.8888882	2.73 ppm	0.8888859	0.8888917	-0.72 ppm	0.55 ppm	PASS 21.84 %
0.8000000	0.8000000	0.7999994	2.73 ppm	0.7999974	0.8000026	-0.72 ppm	0.55 ppm	PASS 22.06 %
0.7777777	0.7777777	0.7777772	2.73 ppm	0.7777751	0.7777803	-0.70 ppm	0.55 ppm	PASS 21.25 %
0.7000000	0.7000000	0.6999995	2.73 ppm	0.6999977	0.7000023	-0.70 ppm	0.55 ppm	PASS 21.31 %
0.6666666	0.6666666	0.6666661	2.73 ppm	0.6666644	0.6666688	-0.77 ppm	0.55 ppm	PASS 23.53 %
0.6000000	0.6000000	0.5999996	2.73 ppm	0.599998	0.600002	-0.70 ppm	0.55 ppm	PASS 21.47 %
0.5555555	0.5555555	0.5555551	2.73 ppm	0.5555537	0.5555573	-0.66 ppm	0.55 ppm	PASS 20.20 %
0.5000000	0.5000000	0.4999997	2.73 ppm	0.4999984	0.5000016	-0.50 ppm	0.55 ppm	PASS 15.36 %
0.4444444	0.4444444	0.4444442	2.73 ppm	0.4444429	0.4444459	-0.35 ppm	0.55 ppm	PASS 10.79 %
0.4000000	0.4000000	0.3999999	2.73 ppm	0.3999987	0.4000013	-0.25 ppm	0.55 ppm	PASS 7.67 %
0.3333333	0.3333333	0.3333332	2.73 ppm	0.3333322	0.3333344	-0.22 ppm	0.55 ppm	PASS 6.78 %
0.3000000	0.3000000	0.3000000	2.73 ppm	0.299999	0.300001	-0.03 ppm	0.55 ppm	PASS 0.85 %
0.2222222	0.2222222	0.2222223	2.73 ppm	0.2222215	0.2222229	0.43 ppm	0.55 ppm	PASS 13.06 %
0.2000000	0.2000000	0.2000001	2.73 ppm	0.1999993	0.2000007	0.59 ppm	0.55 ppm	PASS 17.89 %
0.1234567	0.1234567	0.1234568	2.73 ppm	0.1234563	0.1234571	1.08 ppm	0.55 ppm	PASS 33.07 %
0.1111111	0.1111111	0.1111112	2.73 ppm	0.1111107	0.1111115	1.05 ppm	0.55 ppm	PASS 32.02 %
0.1000000	0.1000000	0.1000001	2.73 ppm	0.09999967	0.1000003	1.35 ppm	0.55 ppm	PASS 41.10 %
0.0987654	0.0987654	0.0987655	3.86 ppm	0.09876496	0.09876584	1.37 ppm	0.55 ppm	PASS 31.05 %
0.0111111	0.0111111	0.0111114	7.27 ppm	0.01111101	0.01111119	24.59 ppm	0.55 ppm	FAIL 314.44 %
-0.0111111	-0.0111111	-0.0111108	7.27 ppm	-0.01111119	-0.01111101	-23.89 ppm	0.55 ppm	FAIL 305.48 %
-0.0987654	-0.0987654	-0.09876504	3.86 ppm	-0.09876584	-0.09876496	-3.69 ppm	0.55 ppm	PASS 83.73 %
-0.1000000	-0.1000000	-0.09999970	2.73 ppm	-0.1000003	-0.09999967	-3.03 ppm	0.55 ppm	PASS 92.27 %
-0.1111111	-0.1111111	-0.1111108	2.73 ppm	-0.1111115	-0.1111107	-2.49 ppm	0.55 ppm	PASS 75.94 %
-0.1234567	-0.1234567	-0.12345637	2.73 ppm	-0.1234571	-0.1234563	-2.69 ppm	0.55 ppm	PASS 82.14 %
-0.2000000	-0.2000000	-0.1999996	2.73 ppm	-0.2000007	-0.1999993	-2.02 ppm	0.55 ppm	PASS 61.54 %
-0.2222222	-0.2222222	-0.2222218	2.73 ppm	-0.2222229	-0.2222215	-1.74 ppm	0.55 ppm	PASS 53.11 %
-0.3000000	-0.3000000	-0.2999996	2.73 ppm	-0.300001	-0.299999	-1.48 ppm	0.55 ppm	PASS 45.21 %
-0.3333333	-0.3333333	-0.3333328	2.73 ppm	-0.3333344	-0.3333322	-1.44 ppm	0.55 ppm	PASS 43.98 %
-0.4000000	-0.4000000	-0.3999994	2.73 ppm	-0.4000013	-0.3999987	-1.48 ppm	0.55 ppm	PASS 45.18 %
-0.4444444	-0.4444444	-0.4444438	2.73 ppm	-0.4444459	-0.4444429	-1.41 ppm	0.55 ppm	PASS 43.03 %
-0.5000000	-0.5000000	-0.4999994	2.73 ppm	-0.5000016	-0.4999984	-1.27 ppm	0.55 ppm	PASS 38.87 %
-0.5555555	-0.5555555	-0.5555547	2.73 ppm	-0.5555573	-0.5555537	-1.38 ppm	0.55 ppm	PASS 42.08 %
-0.6000000	-0.6000000	-0.5999992	2.73 ppm	-0.600002	-0.599998	-1.37 ppm	0.55 ppm	PASS 41.64 %
-0.6666666	-0.6666666	-0.6666657	2.73 ppm	-0.6666688	-0.6666644	-1.32 ppm	0.55 ppm	PASS 40.19 %
-0.7000000	-0.7000000	-0.6999990	2.73 ppm	-0.7000023	-0.6999977	-1.38 ppm	0.55 ppm	PASS 41.97 %
-0.7777777	-0.7777777	-0.7777767	2.73 ppm	-0.7777803	-0.7777751	-1.30 ppm	0.55 ppm	PASS 39.60 %
-0.8000000	-0.8000000	-0.7999989	2.73 ppm	-0.8000026	-0.7999974	-1.35 ppm	0.55 ppm	PASS 41.11 %
-0.8888888	-0.8888888	-0.8888877	2.73 ppm	-0.8888917	-0.8888859	-1.28 ppm	0.55 ppm	PASS 38.95 %
-0.9000000	-0.9000000	-0.8999990	2.73 ppm	-0.900003	-0.899997	-1.16 ppm	0.55 ppm	PASS 35.50 %
-0.9999999	-0.9999999	-0.9999989	2.73 ppm	-1.000003	-0.9999966	-1.04 ppm	0.55 ppm	PASS 31.66 %
-1.0999999	-1.0999999	-1.0999988	2.73 ppm	-1.100004	-1.099996	-1.03 ppm	0.55 ppm	PASS 31.49 %
DCV Linearity	10V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10.250000	10.250000	10.2499949	1.04 ppm	10.24998	10.25002	-0.50 ppm	0.55 ppm	PASS 31.54 %
10.000000	10.000000	9.9999958	1.05 ppm	9.999984	10.00002	-0.42 ppm	0.55 ppm	PASS 26.11 %
9.750000	9.750000	9.7499963	1.06 ppm	9.749984	9.750016	-0.38 ppm	0.55 ppm	PASS 23.31 %
9.500000	9.500000	9.4999965	1.06 ppm	9.499985	9.500015	-0.37 ppm	0.55 ppm	PASS 23.07 %
9.250000	9.250000	9.2499963	1.07 ppm	9.249985	9.250015	-0.40 ppm	0.55 ppm	PASS 24.54 %
9.000000	9.000000	8.9999966	1.08 ppm	8.999985	9.000015	-0.37 ppm	0.55 ppm	PASS 22.98 %
8.750000	8.750000	8.7499966	1.09 ppm	8.749986	8.750014	-0.39 ppm	0.55 ppm	PASS 23.68 %
8.500000	8.500000	8.4999968	1.09 ppm	8.499986	8.500014	-0.38 ppm	0.55 ppm	PASS 23.19 %
8.250000	8.250000	8.2499974	1.10 ppm	8.249986	8.250014	-0.31 ppm	0.55 ppm	PASS 18.89 %
8.000000	8.000000	7.9999970	1.11 ppm	7.999987	8.000013	-0.38 ppm	0.55 ppm	PASS 22.76 %
7.750000	7.750000	7.7499971	1.12 ppm	7.749987	7.750013	-0.37 ppm	0.55 ppm	PASS 22.20 %
7.500000	7.500000	7.4999967	1.13 ppm	7.499987	7.500013	-0.44 ppm	0.55 ppm	PASS 26.10 %

7.250000	7.250000	7.2499970	1.14 ppm	7.249988	7.250012	-0.41 ppm	0.55 ppm	PASS 24.18 %
7.000000	7.000000	6.9999976	1.16 ppm	6.999988	7.000012	-0.35 ppm	0.55 ppm	PASS 20.27 %
6.750000	6.750000	6.7499972	1.17 ppm	6.749988	6.750012	-0.41 ppm	0.55 ppm	PASS 23.71 %
6.500000	6.500000	6.4999979	1.18 ppm	6.499989	6.500011	-0.32 ppm	0.55 ppm	PASS 18.45 %
6.250000	6.250000	6.2499976	1.20 ppm	6.249989	6.250011	-0.38 ppm	0.55 ppm	PASS 21.64 %
6.000000	6.000000	5.9999982	1.22 ppm	5.999989	6.000011	-0.31 ppm	0.55 ppm	PASS 17.40 %
5.750000	5.750000	5.7499979	1.23 ppm	5.74999	5.75001	-0.37 ppm	0.55 ppm	PASS 20.73 %
5.500000	5.500000	5.4999974	1.25 ppm	5.49999	5.50001	-0.47 ppm	0.55 ppm	PASS 26.33 %
5.250000	5.250000	5.2499974	1.28 ppm	5.24999	5.25001	-0.50 ppm	0.55 ppm	PASS 27.42 %
5.000000	5.000000	4.9999971	1.30 ppm	4.999991	5.000009	-0.59 ppm	0.55 ppm	PASS 31.63 %
4.750000	4.750000	4.7499974	1.33 ppm	4.749991	4.750009	-0.54 ppm	0.55 ppm	PASS 28.72 %
4.500000	4.500000	4.4999973	1.36 ppm	4.499991	4.500009	-0.59 ppm	0.55 ppm	PASS 30.98 %
4.250000	4.250000	4.2499973	1.39 ppm	4.249992	4.250008	-0.63 ppm	0.55 ppm	PASS 32.63 %
4.000000	4.000000	3.9999977	1.42 ppm	3.999992	4.000008	-0.59 ppm	0.55 ppm	PASS 29.80 %
3.750000	3.750000	3.7499982	1.47 ppm	3.749992	3.750008	-0.49 ppm	0.55 ppm	PASS 24.37 %
3.500000	3.500000	3.4999982	1.51 ppm	3.499993	3.500007	-0.51 ppm	0.55 ppm	PASS 24.76 %
3.250000	3.250000	3.2499984	1.57 ppm	3.249993	3.250007	-0.50 ppm	0.55 ppm	PASS 23.50 %
3.000000	3.000000	2.9999985	1.63 ppm	2.999993	3.000007	-0.50 ppm	0.55 ppm	PASS 22.75 %
2.750000	2.750000	2.7499989	1.71 ppm	2.749994	2.750006	-0.41 ppm	0.55 ppm	PASS 18.13 %
2.500000	2.500000	2.4999989	1.80 ppm	2.499994	2.500006	-0.43 ppm	0.55 ppm	PASS 18.45 %
2.250000	2.250000	2.2499990	1.91 ppm	2.249994	2.250006	-0.44 ppm	0.55 ppm	PASS 17.85 %
2.000000	2.000000	1.9999988	2.05 ppm	1.999995	2.000005	-0.59 ppm	0.55 ppm	PASS 22.58 %
1.750000	1.750000	1.7499990	2.23 ppm	1.749995	1.750005	-0.55 ppm	0.55 ppm	PASS 19.61 %
1.500000	1.500000	1.4999991	2.47 ppm	1.499995	1.500005	-0.59 ppm	0.55 ppm	PASS 19.54 %
1.250000	1.250000	1.2499993	2.80 ppm	1.249996	1.250004	-0.54 ppm	0.55 ppm	PASS 16.11 %
1.000000	1.000000	0.9999995	3.30 ppm	0.9999961	1.000004	-0.49 ppm	0.55 ppm	PASS 12.73 %
0.750000	0.750000	0.7499997	4.13 ppm	0.7499965	0.7500035	-0.38 ppm	0.55 ppm	PASS 8.21 %
0.500000	0.500000	0.4999998	5.80 ppm	0.4999968	0.5000032	-0.31 ppm	0.55 ppm	PASS 4.94 %
0.250000	0.250000	0.2499996	10.80 ppm	0.2499972	0.2500028	-1.48 ppm	0.55 ppm	PASS 13.01 %
0.100000	0.100000	0.1000001	25.80 ppm	0.09999737	0.1000026	0.83 ppm	0.55 ppm	PASS 3.15 %
-0.100000	-0.100000	-0.1000003	25.80 ppm	-0.1000026	-0.09999737	2.68 ppm	0.55 ppm	PASS 10.17 %
-0.250000	-0.250000	-0.2500002	10.80 ppm	-0.2500028	-0.2499972	0.99 ppm	0.55 ppm	PASS 8.72 %
-0.500000	-0.500000	-0.5000002	5.80 ppm	-0.5000032	-0.4999968	0.32 ppm	0.55 ppm	PASS 5.04 %
-0.750000	-0.750000	-0.7500000	4.13 ppm	-0.7500035	-0.7499965	-0.04 ppm	0.55 ppm	PASS 0.94 %
-1.000000	-1.000000	-0.9999997	3.30 ppm	-1.000004	-0.9999961	-0.31 ppm	0.55 ppm	PASS 7.92 %
-1.250000	-1.250000	-1.2499995	2.80 ppm	-1.250004	-1.249996	-0.38 ppm	0.55 ppm	PASS 11.46 %
-1.500000	-1.500000	-1.4999993	2.47 ppm	-1.500005	-1.499995	-0.50 ppm	0.55 ppm	PASS 16.42 %
-1.750000	-1.750000	-1.7499989	2.23 ppm	-1.750005	-1.749995	-0.63 ppm	0.55 ppm	PASS 22.51 %
-2.000000	-2.000000	-1.9999988	2.05 ppm	-2.000005	-1.999995	-0.62 ppm	0.55 ppm	PASS 23.76 %
-2.250000	-2.250000	-2.2499987	1.91 ppm	-2.250006	-2.249994	-0.59 ppm	0.55 ppm	PASS 24.06 %
-2.500000	-2.500000	-2.4999986	1.80 ppm	-2.500006	-2.499994	-0.56 ppm	0.55 ppm	PASS 23.70 %
-2.750000	-2.750000	-2.7499986	1.71 ppm	-2.750006	-2.749994	-0.50 ppm	0.55 ppm	PASS 22.25 %
-3.000000	-3.000000	-2.9999987	1.63 ppm	-3.000007	-2.999993	-0.43 ppm	0.55 ppm	PASS 19.51 %
-3.250000	-3.250000	-3.2499985	1.57 ppm	-3.250007	-3.249993	-0.46 ppm	0.55 ppm	PASS 21.71 %
-3.500000	-3.500000	-3.4999982	1.51 ppm	-3.500007	-3.499993	-0.52 ppm	0.55 ppm	PASS 25.37 %
-3.750000	-3.750000	-3.7499982	1.47 ppm	-3.750008	-3.749992	-0.49 ppm	0.55 ppm	PASS 24.38 %
-4.000000	-4.000000	-3.9999979	1.42 ppm	-4.000008	-3.999992	-0.54 ppm	0.55 ppm	PASS 27.22 %
-4.250000	-4.250000	-4.2499979	1.39 ppm	-4.250008	-4.249992	-0.50 ppm	0.55 ppm	PASS 26.00 %
-4.500000	-4.500000	-4.4999976	1.36 ppm	-4.500009	-4.499991	-0.52 ppm	0.55 ppm	PASS 27.40 %
-4.750000	-4.750000	-4.7499975	1.33 ppm	-4.750009	-4.749991	-0.52 ppm	0.55 ppm	PASS 27.54 %
-5.000000	-5.000000	-4.9999970	1.30 ppm	-5.000009	-4.999991	-0.60 ppm	0.55 ppm	PASS 32.58 %
-5.250000	-5.250000	-5.2499977	1.28 ppm	-5.25001	-5.24999	-0.43 ppm	0.55 ppm	PASS 23.48 %
-5.500000	-5.500000	-5.4999976	1.25 ppm	-5.50001	-5.49999	-0.45 ppm	0.55 ppm	PASS 24.73 %
-5.750000	-5.750000	-5.7499971	1.23 ppm	-5.75001	-5.74999	-0.50 ppm	0.55 ppm	PASS 28.13 %
-6.000000	-6.000000	-5.9999969	1.22 ppm	-6.000011	-5.999989	-0.52 ppm	0.55 ppm	PASS 29.18 %
-6.250000	-6.250000	-6.2499966	1.20 ppm	-6.250011	-6.249989	-0.54 ppm	0.55 ppm	PASS 30.98 %
-6.500000	-6.500000	-6.4999970	1.18 ppm	-6.500011	-6.499989	-0.47 ppm	0.55 ppm	PASS 26.91 %
-6.750000	-6.750000	-6.7499967	1.17 ppm	-6.750012	-6.749988	-0.49 ppm	0.55 ppm	PASS 28.49 %
-7.000000	-7.000000	-6.9999967	1.16 ppm	-7.000012	-6.999988	-0.48 ppm	0.55 ppm	PASS 27.84 %
-7.250000	-7.250000	-7.2499963	1.14 ppm	-7.250012	-7.249988	-0.52 ppm	0.55 ppm	PASS 30.51 %
-7.500000	-7.500000	-7.4999968	1.13 ppm	-7.500013	-7.499987	-0.42 ppm	0.55 ppm	PASS 25.04 %

-7.750000	-7.750000	-7.7499958	1.12 ppm	-7.750013	-7.749987	-0.54 ppm	0.55 ppm	PASS 32.47 %
-8.000000	-8.000000	-7.9999953	1.11 ppm	-8.000013	-7.999987	-0.59 ppm	0.55 ppm	PASS 35.62 %
-8.250000	-8.250000	-8.2499950	1.10 ppm	-8.250014	-8.249986	-0.60 ppm	0.55 ppm	PASS 36.56 %
-8.500000	-8.500000	-8.4999946	1.09 ppm	-8.500014	-8.499986	-0.63 ppm	0.55 ppm	PASS 38.53 %
-8.750000	-8.750000	-8.7499945	1.09 ppm	-8.750014	-8.749986	-0.63 ppm	0.55 ppm	PASS 38.60 %
-9.000000	-9.000000	-8.9999948	1.08 ppm	-9.000015	-8.999985	-0.58 ppm	0.55 ppm	PASS 35.59 %
-9.250000	-9.250000	-9.2499950	1.07 ppm	-9.250015	-9.249985	-0.54 ppm	0.55 ppm	PASS 33.42 %
-9.500000	-9.500000	-9.4999948	1.06 ppm	-9.500015	-9.499985	-0.54 ppm	0.55 ppm	PASS 33.72 %
-9.750000	-9.750000	-9.7499951	1.06 ppm	-9.750016	-9.749984	-0.50 ppm	0.55 ppm	PASS 30.94 %
-10.000000	-10.000000	-9.9999948	1.05 ppm	-10.00002	-9.999984	-0.52 ppm	0.55 ppm	PASS 32.66 %
-10.250000	-10.250000	-10.2499956	1.04 ppm	-10.25002	-10.24998	-0.43 ppm	0.55 ppm	PASS 26.88 %
DCV Linearity	100V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
100.99999	100.99999	100.9999318	2.73 ppm	100.99966	101.00032	-0.58 ppm	0.55 ppm	PASS 12.82 %
100.10101	100.10101	100.1009363	2.73 ppm	100.10068	100.10134	-0.74 ppm	0.55 ppm	PASS 16.42 %
100.00000	100.00000	99.9999187	2.73 ppm	99.999672	100.00033	-0.81 ppm	0.55 ppm	PASS 24.78 %
99.99999	99.99999	99.9999081	2.73 ppm	99.999662	100.00032	-0.82 ppm	0.55 ppm	PASS 24.98 %
90.00000	90.00000	89.9999179	2.73 ppm	89.999705	90.000295	-0.91 ppm	0.55 ppm	PASS 27.82 %
88.88888	88.88888	88.8887899	2.73 ppm	88.888588	88.889172	-1.01 ppm	0.55 ppm	PASS 30.89 %
80.00000	80.00000	79.9999173	2.73 ppm	79.999738	80.000262	-1.03 ppm	0.55 ppm	PASS 31.52 %
77.77777	77.77777	77.7776853	2.73 ppm	77.777515	77.778025	-1.09 ppm	0.55 ppm	PASS 33.21 %
70.00000	70.00000	69.9999187	2.73 ppm	69.99977	70.00023	-1.16 ppm	0.55 ppm	PASS 35.40 %
66.66666	66.66666	66.6665834	2.73 ppm	66.666441	66.666879	-1.15 ppm	0.55 ppm	PASS 35.01 %
60.00000	60.00000	59.9999401	2.73 ppm	59.999803	60.000197	-1.00 ppm	0.55 ppm	PASS 30.41 %
55.55555	55.55555	55.5554864	2.73 ppm	55.555368	55.555732	-1.14 ppm	0.55 ppm	PASS 34.88 %
50.00000	50.00000	49.9999393	2.73 ppm	49.999836	50.000164	-1.21 ppm	0.55 ppm	PASS 37.02 %
44.44444	44.44444	44.4443848	2.73 ppm	44.444294	44.444586	-1.24 ppm	0.55 ppm	PASS 37.89 %
40.00000	40.00000	39.9999487	2.73 ppm	39.999869	40.000131	-1.28 ppm	0.55 ppm	PASS 39.07 %
33.33333	33.33333	33.3332836	2.73 ppm	33.333221	33.333439	-1.39 ppm	0.55 ppm	PASS 42.42 %
30.00000	30.00000	29.9999573	2.73 ppm	29.999902	30.000098	-1.42 ppm	0.55 ppm	PASS 43.38 %
22.22222	22.22222	22.2221848	2.73 ppm	22.222147	22.222293	-1.59 ppm	0.55 ppm	PASS 48.34 %
20.00000	20.00000	19.9999704	2.73 ppm	19.999934	20.000066	-1.48 ppm	0.55 ppm	PASS 45.17 %
11.11111	11.11111	11.1110837	2.73 ppm	11.111075	11.111147	-2.46 ppm	0.55 ppm	PASS 74.85 %
10.00000	10.00000	9.9999790	3.86 ppm	9.9999559	10.000044	-2.10 ppm	0.55 ppm	PASS 47.57 %
9.87654	9.87654	9.8765191	7.27 ppm	9.8764658	9.8766202	-2.42 ppm	0.55 ppm	PASS 30.98 %
-9.87654	-9.87654	-9.8765376	7.27 ppm	-9.8766202	-9.8764658	-0.55 ppm	0.55 ppm	PASS 7.05 %
-10.00000	-10.00000	-9.9999973	3.86 ppm	-10.000044	-9.9999559	-0.27 ppm	0.55 ppm	PASS 6.06 %
-11.11111	-11.11111	-11.1111022	2.73 ppm	-11.111147	-11.111075	-0.79 ppm	0.55 ppm	PASS 24.16 %
-20.00000	-20.00000	-19.9999889	2.73 ppm	-20.000066	-19.999934	-0.56 ppm	0.55 ppm	PASS 17.00 %
-22.22222	-22.22222	-22.2222038	2.73 ppm	-22.222293	-22.222147	-0.73 ppm	0.55 ppm	PASS 22.25 %
-30.00000	-30.00000	-29.9999805	2.73 ppm	-30.000098	-29.999902	-0.65 ppm	0.55 ppm	PASS 19.77 %
-33.33333	-33.33333	-33.3333020	2.73 ppm	-33.333439	-33.333221	-0.84 ppm	0.55 ppm	PASS 25.60 %
-40.00000	-40.00000	-39.9999671	2.73 ppm	-40.000131	-39.999869	-0.82 ppm	0.55 ppm	PASS 25.05 %
-44.44444	-44.44444	-44.4443985	2.73 ppm	-44.444586	-44.444294	-0.93 ppm	0.55 ppm	PASS 28.47 %
-50.00000	-50.00000	-49.9999544	2.73 ppm	-50.000164	-49.999836	-0.91 ppm	0.55 ppm	PASS 27.78 %
-55.55555	-55.55555	-55.5554988	2.73 ppm	-55.555732	-55.555368	-0.92 ppm	0.55 ppm	PASS 28.12 %
-60.00000	-60.00000	-59.9999362	2.73 ppm	-60.000197	-59.999803	-1.06 ppm	0.55 ppm	PASS 32.43 %
-66.66666	-66.66666	-66.6665899	2.73 ppm	-66.666879	-66.666441	-1.05 ppm	0.55 ppm	PASS 32.07 %
-70.00000	-70.00000	-69.9999280	2.73 ppm	-70.00023	-69.99977	-1.03 ppm	0.55 ppm	PASS 31.37 %
-77.77777	-77.77777	-77.7776875	2.73 ppm	-77.778025	-77.777515	-1.06 ppm	0.55 ppm	PASS 32.34 %
-80.00000	-80.00000	-79.9999053	2.73 ppm	-80.000262	-79.999738	-1.18 ppm	0.55 ppm	PASS 36.08 %
-88.88888	-88.88888	-88.8887764	2.73 ppm	-88.889172	-88.888588	-1.17 ppm	0.55 ppm	PASS 35.54 %
-90.00000	-90.00000	-89.9998901	2.73 ppm	-90.000295	-89.999705	-1.22 ppm	0.55 ppm	PASS 37.21 %
-99.99999	-99.99999	-99.9998663	2.73 ppm	-100.00032	-99.999662	-1.24 ppm	0.55 ppm	PASS 37.72 %
-100.00000	-100.00000	-99.9998781	2.73 ppm	-100.00033	-99.999672	-1.22 ppm	0.55 ppm	PASS 37.18 %
-100.10101	-100.10101	-100.1008772	2.73 ppm	-100.10134	-100.10068	-1.33 ppm	0.55 ppm	PASS 63.79 %
-100.99999	-100.99999	-100.9998615	2.73 ppm	-101.00032	-100.99966	-1.27 ppm	0.55 ppm	PASS 61.52 %

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

OHM Test	1 Ohm to 1 GOhm	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1 Ω	0.9998017	0.99976551	32.0 ppm	9.9976171E-01	9.9984169E-01	-36.197 ppm	8.0 ppm	PASS 90.49 %
1.9 Ω	1.8995064	1.899447	25.0 ppm	1.8994437E+00	1.8995691E+00	-31.254 ppm	8.0 ppm	PASS 94.71 %
10 Ω	9.999933	9.9998485	5.0 ppm	9.9998030E+00	1.0000063E+01	-8.448 ppm	8.0 ppm	PASS 64.99 %
19 Ω	18.999097	18.999065	4.0 ppm	1.8998907E+01	1.8999287E+01	-1.687 ppm	6.0 ppm	PASS 16.87 %
100 Ω	100.00183	100.00166	1.7 ppm	1.0000106E+02	1.0000260E+02	-1.713 ppm	6.0 ppm	PASS 22.25 %
190 Ω	189.99505	189.99488	1.7 ppm	1.8999431E+02	1.8999579E+02	-0.877 ppm	2.2 ppm	PASS 22.48 %
1.0 kΩ	999.9918	999.99068	1.7 ppm	9.9998790E+02	9.9999570E+02	-1.117 ppm	2.2 ppm	PASS 28.64 %
1.9 kΩ	1899.9976	1899.9952	1.7 ppm	1.8999902E+03	1.9000050E+03	-1.256 ppm	2.2 ppm	PASS 32.21 %
10 kΩ	10000.084	10000.069	1.6 ppm	1.0000046E+04	1.0000122E+04	-1.540 ppm	2.2 ppm	PASS 40.53 %
19 kΩ	18999.701	18999.688	1.7 ppm	1.8999627E+04	1.8999775E+04	-0.676 ppm	2.2 ppm	PASS 17.33 %
100 kΩ	100001.4	100000.81	2.0 ppm	1.0000098E+05	1.0000182E+05	-5.862 ppm	2.2 ppm	FAIL 139.58 %
190 kΩ	189992.98	189992.72	2.0 ppm	1.8999051E+05	1.8999545E+05	-1.358 ppm	11.0 ppm	PASS 10.45 %
1.0 MΩ	1000003.1	999997.36	2.5 ppm	9.9998960E+05	1.0000166E+06	-5.736 ppm	11.0 ppm	PASS 42.49 %
1.9 MΩ	1899959.2	1899930.3	3.0 ppm	1.8998490E+06	1.9000694E+06	-15.216 ppm	55.0 ppm	PASS 26.23 %
10 MΩ	9999407	9999060	10.0 ppm	9.9987570E+06	1.0000057E+07	-34.700 ppm	55.0 ppm	PASS 53.38 %
19 MΩ	18999096	18999614	20.0 ppm	1.8989026E+07	1.9009166E+07	27.248 ppm	510.0 ppm	PASS 5.14 %
100 MΩ	1.000094E+08	1.0001782E+08	50.0 ppm	9.9953395E+07	1.0006541E+08	84.180 ppm	510.0 ppm	PASS 15.03 %

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 -0.0000034 Ω	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	Range -0.0000202 Ω	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range -0.0000486 Ω	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range -0.0001620 Ω	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.0072040 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.0828736 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 0.2522638 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 0.3964146 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 0.0720754 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 0.2021793 Ω	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	Range 0.2021996 Ω	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.2019425 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range 0.2035824 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.1945075 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.2882571 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 2.0181214 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 2.4145387 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 2.1983113 Ω	5.500e+03 Ω	-5500	5500	N/A	2.2000e-06 Ω	PASS

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	0.99967662	129.09	0.99955091	1.00044909	VAC	-323.384 ppm	320.0 ppm	PASS 72.01 %
1.0 VAC @ 1.0 MHz	1.0	1.0012518	0.2500 %	0.9874	1.0126	VAC	0.1252 %	1.0100 %	PASS 9.93 %
10 VAC @ 40 Hz	10	10.00064	0.0073 %	9.8982682	10.1017318	VAC	0.0064 %	1.0100 %	PASS 0.63 %
10 VAC @ 200 Hz	10	9.9997508	73.18	9.9983682	10.0016318	VAC	-24.919 ppm	90.0 ppm	PASS 15.27 %
10 VAC @ 500 Hz	10	9.999694	73.18	9.9983682	10.0016318	VAC	-30.602 ppm	90.0 ppm	PASS 18.75 %
10 VAC @ 50.0 kHz	10	9.9949128	129.09	9.9955091	10.0044909	VAC	-508.721 ppm	320.0 ppm	FAIL 113.28 %
10 VAC @ 1.0 MHz	10	9.9821955	0.3000 %	9.869	10.131	VAC	-0.1780 %	1.0100 %	PASS 13.59 %

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	0.0099993338	0.0312 %	0.009991	0.010009	-0.0067 %	0.0600 %	PASS 7.30 %
0.01 V AC+DC @ 20 Hz	0.0099984525	0.0312 %	0.009991	0.010009	-0.0155 %	0.0600 %	PASS 16.96 %
0.01 V AC+DC @ 40 Hz	0.0099984751	0.0312 %	0.009991	0.010009	-0.0152 %	0.0600 %	PASS 16.72 %
0.01 V AC+DC @ 100 Hz	0.0099985065	0.0312 %	0.009994	0.010006	-0.0149 %	0.0310 %	PASS 24.00 %
0.01 V AC+DC @ 1.0 kHz	0.0099983486	0.0312 %	0.009994	0.010006	-0.0165 %	0.0310 %	PASS 26.54 %
0.01 V AC+DC @ 10.0 kHz	0.0099987789	0.0312 %	0.009993	0.010007	-0.0122 %	0.0410 %	PASS 16.91 %
0.01 V AC+DC @ 20.0 kHz	0.0099968759	0.0312 %	0.009993	0.010007	-0.0312 %	0.0410 %	PASS 43.25 %
0.01 V AC+DC @ 50.0 kHz	0.0099897819	0.0447 %	0.009984	0.010016	-0.1022 %	0.1110 %	PASS 65.62 %
0.01 V AC+DC @ 100.0 kHz	0.0099567822	0.0773 %	0.009941	0.010059	-0.4322 %	0.5110 %	PASS 73.47 %
0.01 V AC+DC @ 300.0 kHz	0.0096732157	0.1500 %	0.009583	0.010417	-3.2678 %	4.0200 %	PASS 78.37 %
0.01 V AC+DC @ 500.0 kHz	0.009227621	0.2500 %	0.006770	0.013230	-7.7238 %	32.0500 %	PASS 23.91 %
0.01 V AC+DC @ 1.0 MHz	0.0076545288	0.4000 %	0.006755	0.013245	-23.4547 %	32.0500 %	PASS 72.28 %
0.03 V AC+DC @ 10 Hz	0.030003886	0.0121 %	0.029993	0.030007	0.0130 %	0.0110 %	PASS 55.99 %
0.03 V AC+DC @ 20 Hz	0.030002552	0.0121 %	0.029993	0.030007	0.0085 %	0.0110 %	PASS 36.77 %
0.03 V AC+DC @ 40 Hz	0.030002833	0.0121 %	0.029993	0.030007	0.0094 %	0.0110 %	PASS 40.82 %
0.03 V AC+DC @ 100 Hz	0.030002902	0.0121 %	0.029994	0.030006	0.0097 %	0.0090 %	PASS 45.77 %
0.03 V AC+DC @ 1.0 kHz	0.030002213	0.0121 %	0.029994	0.030006	0.0074 %	0.0090 %	PASS 34.89 %
0.03 V AC+DC @ 10.0 kHz	0.03000272	0.0121 %	0.029992	0.030008	0.0091 %	0.0160 %	PASS 32.22 %
0.03 V AC+DC @ 20.0 kHz	0.030001722	0.0121 %	0.029992	0.030008	0.0057 %	0.0160 %	PASS 20.40 %
0.03 V AC+DC @ 50.0 kHz	0.030003355	0.0256 %	0.029983	0.030017	0.0112 %	0.0320 %	PASS 19.40 %
0.03 V AC+DC @ 100.0 kHz	0.029996062	0.0591 %	0.029958	0.030042	-0.0131 %	0.0820 %	PASS 9.30 %
0.03 V AC+DC @ 300.0 kHz	0.029950573	0.0964 %	0.029878	0.030122	-0.1648 %	0.3100 %	PASS 40.54 %
0.03 V AC+DC @ 500.0 kHz	0.029912609	0.1500 %	0.029652	0.030348	-0.2913 %	1.0100 %	PASS 25.11 %
0.03 V AC+DC @ 1.0 MHz	0.029821513	0.3000 %	0.029607	0.030393	-0.5950 %	1.0100 %	PASS 45.42 %
0.1 V AC+DC @ 10 Hz	0.099999055	0.0121 %	0.099977	0.100023	-0.0009 %	0.0110 %	PASS 4.08 %
0.1 V AC+DC @ 20 Hz	0.099995842	0.0121 %	0.099977	0.100023	-0.0042 %	0.0110 %	PASS 17.97 %
0.1 V AC+DC @ 40 Hz	0.09999564	0.0121 %	0.099977	0.100023	-0.0044 %	0.0110 %	PASS 18.85 %
0.1 V AC+DC @ 100 Hz	0.099995696	0.0121 %	0.099979	0.100021	-0.0043 %	0.0090 %	PASS 20.36 %
0.1 V AC+DC @ 1.0 kHz	0.099993199	0.0121 %	0.099979	0.100021	-0.0068 %	0.0090 %	PASS 32.18 %
0.1 V AC+DC @ 10.0 kHz	0.099992536	0.0121 %	0.099972	0.100028	-0.0075 %	0.0160 %	PASS 26.53 %
0.1 V AC+DC @ 20.0 kHz	0.099993101	0.0121 %	0.099972	0.100028	-0.0069 %	0.0160 %	PASS 24.52 %
0.1 V AC+DC @ 50.0 kHz	0.099993496	0.0256 %	0.099942	0.100058	-0.0065 %	0.0320 %	PASS 11.28 %
0.1 V AC+DC @ 100.0 kHz	0.099967163	0.0591 %	0.099859	0.100141	-0.0328 %	0.0820 %	PASS 23.27 %
0.1 V AC+DC @ 300.0 kHz	0.099817291	0.0964 %	0.099594	0.100406	-0.1827 %	0.3100 %	PASS 44.96 %
0.1 V AC+DC @ 500.0 kHz	0.099685496	0.1500 %	0.098840	0.101160	-0.3145 %	1.0100 %	PASS 27.11 %
0.1 V AC+DC @ 1.0 MHz	0.099463269	0.3000 %	0.098690	0.101310	-0.5367 %	1.0100 %	PASS 40.97 %
0.3 V AC+DC @ 10 Hz	0.30000185	0.0050 %	0.299952	0.300048	0.0006 %	0.0110 %	PASS 3.86 %
0.3 V AC+DC @ 20 Hz	0.29999565	0.0050 %	0.299952	0.300048	-0.0014 %	0.0110 %	PASS 9.09 %
0.3 V AC+DC @ 40 Hz	0.29999486	0.0050 %	0.299952	0.300048	-0.0017 %	0.0110 %	PASS 10.74 %
0.3 V AC+DC @ 100 Hz	0.29999304	0.0050 %	0.299958	0.300042	-0.0023 %	0.0090 %	PASS 16.61 %
0.3 V AC+DC @ 1.0 kHz	0.29999235	0.0050 %	0.299958	0.300042	-0.0026 %	0.0090 %	PASS 18.28 %
0.3 V AC+DC @ 10.0 kHz	0.30001682	0.0050 %	0.299937	0.300063	0.0056 %	0.0160 %	PASS 26.75 %
0.3 V AC+DC @ 20.0 kHz	0.30001749	0.0050 %	0.299937	0.300063	0.0058 %	0.0160 %	PASS 27.83 %
0.3 V AC+DC @ 50.0 kHz	0.30005757	0.0085 %	0.299878	0.300122	0.0192 %	0.0320 %	PASS 47.33 %
0.3 V AC+DC @ 100.0 kHz	0.30012264	0.0138 %	0.299713	0.300287	0.0409 %	0.0820 %	PASS 42.66 %
0.3 V AC+DC @ 300.0 kHz	0.30042565	0.0425 %	0.298942	0.301058	0.1419 %	0.3100 %	PASS 40.25 %
0.3 V AC+DC @ 500.0 kHz	0.3007959	0.1100 %	0.296640	0.303360	0.2653 %	1.0100 %	PASS 23.69 %
0.3 V AC+DC @ 1.0 MHz	0.30119089	0.1800 %	0.296430	0.303570	0.3970 %	1.0100 %	PASS 33.36 %
1.0 V AC+DC @ 10 Hz	1.0000049	0.0050 %	0.999840	1.000160	0.0005 %	0.0110 %	PASS 3.10 %
1.0 V AC+DC @ 20 Hz	0.99997944	0.0050 %	0.999840	1.000160	-0.0021 %	0.0110 %	PASS 12.89 %
1.0 V AC+DC @ 40 Hz	0.99997235	0.0050 %	0.999840	1.000160	-0.0028 %	0.0110 %	PASS 17.33 %
1.0 V AC+DC @ 100 Hz	0.99996971	0.0050 %	0.999860	1.000140	-0.0030 %	0.0090 %	PASS 21.70 %
1.0 V AC+DC @ 1.0 kHz	0.99996324	0.0050 %	0.999860	1.000140	-0.0037 %	0.0090 %	PASS 26.34 %
1.0 V AC+DC @ 10.0 kHz	1.0000266	0.0050 %	0.999790	1.000210	0.0027 %	0.0160 %	PASS 12.68 %
1.0 V AC+DC @ 20.0 kHz	1.0000564	0.0050 %	0.999790	1.000210	0.0056 %	0.0160 %	PASS 26.91 %
1.0 V AC+DC @ 50.0 kHz	1.0001698	0.0085 %	0.999595	1.000405	0.0170 %	0.0320 %	PASS 41.88 %
1.0 V AC+DC @ 100.0 kHz	1.0003436	0.0138 %	0.999042	1.000958	0.0344 %	0.0820 %	PASS 35.86 %

1.0 V AC+DC @ 300.0 kHz	1.0014217	0.0425 %	0.996475	1.003525	0.1422 %	0.3100 %	PASS 40.33 %
1.0 V AC+DC @ 500.0 kHz	1.0026531	0.1100 %	0.988800	1.011200	0.2653 %	1.0100 %	PASS 23.69 %
1.0 V AC+DC @ 1.0 MHz	1.0055218	0.1800 %	0.988100	1.011900	0.5522 %	1.0100 %	PASS 46.40 %
3.0 V AC+DC @ 10 Hz	3.000079	0.0048 %	2.999525	3.000475	0.0026 %	0.0110 %	PASS 16.65 %
3.0 V AC+DC @ 20 Hz	2.9999808	0.0048 %	2.999525	3.000475	-0.0006 %	0.0110 %	PASS 4.05 %
3.0 V AC+DC @ 40 Hz	2.99997	0.0048 %	2.999525	3.000475	-0.0010 %	0.0110 %	PASS 6.33 %
3.0 V AC+DC @ 100 Hz	2.9999788	0.0048 %	2.999585	3.000415	-0.0007 %	0.0090 %	PASS 5.12 %
3.0 V AC+DC @ 1.0 kHz	2.9999279	0.0048 %	2.999585	3.000415	-0.0024 %	0.0090 %	PASS 17.39 %
3.0 V AC+DC @ 10.0 kHz	2.9998718	0.0048 %	2.999375	3.000625	-0.0043 %	0.0160 %	PASS 20.52 %
3.0 V AC+DC @ 20.0 kHz	2.9999241	0.0048 %	2.999375	3.000625	-0.0025 %	0.0160 %	PASS 12.16 %
3.0 V AC+DC @ 50.0 kHz	2.9997457	0.0085 %	2.998784	3.001216	-0.0085 %	0.0320 %	PASS 20.90 %
3.0 V AC+DC @ 100.0 kHz	2.9988177	0.0121 %	2.997176	3.002824	-0.0394 %	0.0820 %	PASS 41.87 %
3.0 V AC+DC @ 300.0 kHz	2.9927763	0.0336 %	2.989691	3.010309	-0.2408 %	0.3100 %	PASS 70.07 %
3.0 V AC+DC @ 500.0 kHz	2.9927147	0.1100 %	2.966400	3.033600	-0.2428 %	1.0100 %	PASS 21.68 %
3.0 V AC+DC @ 1.0 MHz	3.0041541	0.1700 %	2.964600	3.035400	0.1385 %	1.0100 %	PASS 11.73 %
10.0 V AC+DC @ 10 Hz	10.000193	0.0048 %	9.998418	10.001582	0.0019 %	0.0110 %	PASS 12.21 %
10.0 V AC+DC @ 20 Hz	9.999895	0.0048 %	9.998418	10.001582	-0.0010 %	0.0110 %	PASS 6.64 %
10.0 V AC+DC @ 40 Hz	9.9998281	0.0048 %	9.998418	10.001582	-0.0017 %	0.0110 %	PASS 10.87 %
10.0 V AC+DC @ 100 Hz	9.9997908	0.0048 %	9.998618	10.001382	-0.0021 %	0.0090 %	PASS 15.14 %
10.0 V AC+DC @ 1.0 kHz	9.9996432	0.0048 %	9.998618	10.001382	-0.0036 %	0.0090 %	PASS 25.82 %
10.0 V AC+DC @ 10.0 kHz	9.9994003	0.0048 %	9.997918	10.002082	-0.0060 %	0.0160 %	PASS 28.81 %
10.0 V AC+DC @ 20.0 kHz	9.9995268	0.0048 %	9.997918	10.002082	-0.0047 %	0.0160 %	PASS 22.73 %
10.0 V AC+DC @ 50.0 kHz	9.9989298	0.0085 %	9.995945	10.004054	-0.0107 %	0.0320 %	PASS 26.40 %
10.0 V AC+DC @ 100.0 kHz	9.9953395	0.0121 %	9.990586	10.009414	-0.0466 %	0.0820 %	PASS 49.51 %
10.0 V AC+DC @ 300.0 kHz	9.9758694	0.0336 %	9.965636	10.034364	-0.2413 %	0.3100 %	PASS 70.22 %
10.0 V AC+DC @ 500.0 kHz	9.9755447	0.1100 %	9.888000	10.112000	-0.2446 %	1.0100 %	PASS 21.84 %
10.0 V AC+DC @ 1.0 MHz	10.029708	0.1700 %	9.882000	10.118000	0.2971 %	1.0100 %	PASS 25.18 %
30 V AC+DC @ 10 Hz	29.99968	0.0060 %	29.990995	30.009005	-0.0011 %	0.0240 %	PASS 3.56 %
30 V AC+DC @ 20 Hz	29.998958	0.0060 %	29.990995	30.009005	-0.0035 %	0.0240 %	PASS 11.57 %
30 V AC+DC @ 40 Hz	29.998502	0.0060 %	29.990995	30.009005	-0.0050 %	0.0240 %	PASS 16.64 %
30 V AC+DC @ 100 Hz	29.998405	0.0060 %	29.991595	30.008405	-0.0053 %	0.0220 %	PASS 18.97 %
30 V AC+DC @ 1.0 kHz	29.998076	0.0060 %	29.991595	30.008405	-0.0064 %	0.0220 %	PASS 22.89 %
30 V AC+DC @ 10.0 kHz	29.997526	0.0060 %	29.991595	30.008405	-0.0082 %	0.0220 %	PASS 29.44 %
30 V AC+DC @ 20.0 kHz	29.998	0.0060 %	29.991595	30.008405	-0.0067 %	0.0220 %	PASS 23.80 %
30 V AC+DC @ 50.0 kHz	29.998205	0.0060 %	29.987095	30.012905	-0.0060 %	0.0370 %	PASS 13.91 %
30 V AC+DC @ 100.0 kHz	29.994638	0.0174 %	29.958191	30.041809	-0.0179 %	0.1220 %	PASS 12.82 %
30 V AC+DC @ 300.0 kHz	30.031317	0.0991 %	29.847273	30.152727	0.1044 %	0.4100 %	PASS 20.51 %
30 V AC+DC @ 500.0 kHz	30.212287	0.5200 %	29.391000	30.609000	0.7076 %	1.5100 %	PASS 34.86 %
100.0 V AC+DC @ 10 Hz	99.998015	0.0060 %	99.969982	100.030018	-0.0020 %	0.0240 %	PASS 6.61 %
100.0 V AC+DC @ 20 Hz	99.995064	0.0060 %	99.969982	100.030018	-0.0049 %	0.0240 %	PASS 16.44 %
100.0 V AC+DC @ 40 Hz	99.994736	0.0060 %	99.969982	100.030018	-0.0053 %	0.0240 %	PASS 17.54 %
100.0 V AC+DC @ 100 Hz	99.994301	0.0060 %	99.971982	100.028018	-0.0057 %	0.0220 %	PASS 20.34 %
100.0 V AC+DC @ 1.0 kHz	99.9933	0.0060 %	99.971982	100.028018	-0.0067 %	0.0220 %	PASS 23.91 %
100.0 V AC+DC @ 10.0 kHz	99.991916	0.0060 %	99.971982	100.028018	-0.0081 %	0.0220 %	PASS 28.85 %
100.0 V AC+DC @ 20.0 kHz	99.992807	0.0060 %	99.971982	100.028018	-0.0072 %	0.0220 %	PASS 25.67 %
100.0 V AC+DC @ 50.0 kHz	99.992431	0.0095 %	99.953455	100.046545	-0.0076 %	0.0370 %	PASS 16.26 %
100.0 V AC+DC @ 100.0 kHz	99.977646	0.0174 %	99.860636	100.139364	-0.0224 %	0.1220 %	PASS 16.04 %
300.0 V AC+DC @ 100 Hz	299.97533	0.0079 %	299.850408	300.149592	-0.0082 %	0.0420 %	PASS 16.37 %
300.0 V AC+DC @ 1.0 kHz	299.97516	0.0079 %	299.850408	300.149592	-0.0083 %	0.0420 %	PASS 16.49 %
300.0 V AC+DC @ 10.0 kHz	149.96751	0.0079 %	299.790408	300.209592	-50.0108 %	0.0620 %	FAIL 71216.15 %
300.0 V AC+DC @ 20.0 kHz	149.96547	0.0110 %	299.780865	300.219135	-50.0115 %	0.0620 %	FAIL 68130.93 %
300.0 V AC+DC @ 50.0 kHz	149.99223	0.0110 %	299.600865	300.399135	-50.0026 %	0.1220 %	FAIL 37481.80 %
750.0 V AC+DC @ 100 Hz	749.85289	0.0245 %	749.501498	750.498502	-0.0196 %	0.0420 %	PASS 29.12 %
750.0 V AC+DC @ 1.0 kHz	749.84398	0.0660 %	749.190000	750.810000	-0.0208 %	0.0420 %	PASS 19.10 %
750.0 V AC+DC @ 10.0 kHz	749.84142	0.0079 %	749.476020	750.523980	-0.0211 %	0.0620 %	PASS 29.88 %
750.0 V AC+DC @ 20.0 kHz	749.83905	0.0079 %	749.476020	750.523980	-0.0215 %	0.0620 %	PASS 30.33 %

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	-7.4163044E-12						INFO
50 nADC	5E-08	4.9993263E-08						INFO
100 nADC	1E-07	1.0002041E-07	71.82 ppm	9.995182E-08	1.000482E-07	204.133 ppm	410 ppm	PASS 42.37 %
-100 nADC	-1E-07	-9.9959437E-08	71.82 ppm	-1.000482E-07	-9.995182E-08	-405.630 ppm	410 ppm	PASS 84.19 %
-50 nADC	-5E-08	-5.0014167E-08						INFO
Zero µADC	0	-2.9678116E-11						INFO
0.5 µADC	5E-07	4.999821E-07	71.82 ppm	4.999391E-07	5.000609E-07	-35.798 ppm	50 ppm	PASS 29.39 %
1.0 µADC	1E-06	9.9996734E-07	71.82 ppm	9.998782E-07	1.000122E-06	-32.662 ppm	50 ppm	PASS 26.81 %
-1.0 µADC	-1E-06	-1.0000099E-06	71.82 ppm	-1.000122E-06	-9.998782E-07	9.869 ppm	50 ppm	PASS 8.10 %
-0.5 µADC	-5E-07	-4.9999268E-07	71.82 ppm	-5.000609E-07	-4.999391E-07	-14.646 ppm	50 ppm	PASS 12.02 %
Zero 00 µADC	0	6.2038999E-12						INFO
5 µADC	5E-06	4.9999961E-06	71.82 ppm	4.999556E-06	5.000444E-06	-0.786 ppm	17 ppm	PASS 0.89 %
10 µADC	1E-05	9.9999365E-06	71.82 ppm	9.999112E-06	1.000089E-05	-6.349 ppm	17 ppm	PASS 7.15 %
-10 µADC	-1E-05	-9.9999687E-06	71.82 ppm	-1.000089E-05	-9.999112E-06	-3.129 ppm	17 ppm	PASS 3.52 %
-5 µADC	-5E-06	-4.999997E-06	71.82 ppm	-5.000444E-06	-4.999556E-06	-0.594 ppm	17 ppm	PASS 0.67 %
Zero 000 µADC	0	-2.2308566E-11						INFO
50 µADC	5E-05	4.9999895E-05	71.82 ppm	4.999561E-05	5.000439E-05	-2.090 ppm	16 ppm	PASS 2.38 %
100 µADC	0.0001	9.9999733E-05	71.82 ppm	9.999122E-05	0.0001000088	-2.665 ppm	16 ppm	PASS 3.03 %
-100 µADC	-0.0001	-9.9999543E-05	71.82 ppm	-0.0001000088	-9.999122E-05	-4.574 ppm	16 ppm	PASS 5.21 %
-50 µADC	-5E-05	-4.999966E-05	71.82 ppm	-5.000439E-05	-4.999561E-05	-6.799 ppm	16 ppm	PASS 7.74 %
Zero mADC	0	1.6578665E-11						INFO
0.5 mADC	0.0005	0.00050000095	33.64 ppm	0.0004999762	0.0005000238	1.894 ppm	14 ppm	PASS 3.98 %
1.0 mADC	0.001	0.0010000006	33.64 ppm	0.0009999524	0.001000048	0.633 ppm	14 ppm	PASS 1.33 %
-1.0 mADC	-0.001	-0.00099999813	33.64 ppm	-0.001000048	-0.0009999524	-1.865 ppm	14 ppm	PASS 3.92 %
-0.5 mADC	-0.0005	-0.00049999843	33.64 ppm	-0.0005000238	-0.0004999762	-3.140 ppm	14 ppm	PASS 6.59 %
Zero 00 mADC	0	2.1441181E-11						INFO
5 mADC	0.005	0.0049999974	32.27 ppm	0.004999769	0.005000231	-0.511 ppm	14 ppm	PASS 1.10 %
10 mADC	0.01	0.01000001	32.27 ppm	0.009999537	0.01000046	1.046 ppm	14 ppm	PASS 2.26 %
-10 mADC	-0.01	-0.010000037	32.27 ppm	-0.01000046	-0.009999537	3.691 ppm	14 ppm	PASS 7.98 %
-5 mADC	-0.005	-0.005000021	32.27 ppm	-0.005000231	-0.004999769	4.202 ppm	14 ppm	PASS 9.08 %
Zero 000 mADC	0	3.6578503E-11						INFO
50 mADC	0.05	0.050000653	53.32 ppm	0.04999588	0.05000412	13.056 ppm	29 ppm	PASS 15.86 %
100 mADC	0.1	0.10000257	53.32 ppm	0.09999177	0.1000082	25.678 ppm	29 ppm	PASS 31.19 %
-100 mADC	-0.1	-0.10000356	53.32 ppm	-0.1000082	-0.09999177	35.612 ppm	29 ppm	PASS 43.26 %
-50 mADC	-0.05	-0.050001622	53.32 ppm	-0.05000412	-0.04999588	32.445 ppm	29 ppm	PASS 39.41 %
Zero ADC	0	2.0082063E-11						INFO
0.5 ADC	0.5	0.50001364	115.22 ppm	0.4998874	0.5001126	27.280 ppm	110 ppm	PASS 12.11 %
1.0 ADC	1	1.0000393	115.22 ppm	0.9997748	1.000225	39.335 ppm	110 ppm	PASS 17.47 %
-1.0 ADC	-1	-1.0000346	115.22 ppm	-1.000225	-0.9997748	34.570 ppm	110 ppm	PASS 15.35 %
-0.5 ADC	-0.5	-0.50002481	115.22 ppm	-0.5001126	-0.4998874	49.624 ppm	110 ppm	PASS 22.03 %

ACI Test	200µA-2A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result, % spec
10 µA AC @ 50 Hz	1e-05	1.0021519E-05	0.0160 %	9.9893955e-06	1.00106045e-05	2151.945 ppm	0.0900 %	INFO
100 µA AC @ 50 Hz	0.0001	0.00010001359	0.0160 %	9.9893955e-05	0.000100106045	135.866 ppm	0.0900 %	PASS 12.81 %
1.0 mA AC @ 50 Hz	0.001	0.00099994918	0.0160 %	0.00099903955	0.00100096045	-50.815 ppm	0.0800 %	PASS 5.29 %
10 mA AC @ 50 Hz	0.01	0.0099995244	0.0160 %	0.0099903955	0.0100096045	-47.559 ppm	0.0800 %	PASS 4.95 %
100 mA AC @ 50 Hz	0.1	0.10000021	0.0133 %	0.099906682	0.100093318	2.086 ppm	0.0800 %	PASS 0.22 %
1.0 A AC @ 50 Hz	1.0	1.0002316	0.0133 %	0.99886682	1.00113318	0.0232 %	0.1000 %	PASS 20.44 %
10 µA AC @ 60 Hz	1e-05	1.0024027E-05	0.0133 %	9.9896682e-06	1.00103318e-05	2402.706 ppm	0.0900 %	INFO
100 µA AC @ 60 Hz	0.0001	0.00010001771	0.0133 %	9.9896682e-05	0.000100103318	177.103 ppm	0.0900 %	PASS 17.14 %
1.0 mA AC @ 60 Hz	0.001	0.0009999816	0.0129 %	0.00099907136	0.00100092864	-18.400 ppm	0.0800 %	PASS 1.98 %
10 mA AC @ 60 Hz	0.01	0.0099997823	0.0129 %	0.0099907136	0.0100092864	-21.767 ppm	0.0800 %	PASS 2.34 %
100 mA AC @ 60 Hz	0.1	0.10000199	0.0288 %	0.099891182	0.100108818	19.946 ppm	0.0800 %	PASS 1.83 %
1.0 A AC @ 60 Hz	1.0	1.0002364	0.0288 %	0.99871182	1.00128818	0.0236 %	0.1000 %	PASS 18.35 %
10 µA AC @ 1.0 kHz	1e-05	1.0020549E-05	0.0160 %	9.9893955e-06	1.00106045e-05	2054.904 ppm	0.0900 %	INFO
100 µA AC @ 1.0 kHz	0.0001	9.9983074E-05	0.0160 %	9.9893955e-05	0.000100106045	-169.256 ppm	0.0900 %	PASS 15.96 %
1.0 mA AC @ 1.0 kHz	0.001	0.0010000101	0.0160 %	0.00099933955	0.00100066045	10.126 ppm	0.0500 %	PASS 1.53 %
10 mA AC @ 1.0 kHz	0.01	0.010000127	0.0160 %	0.0099933955	0.0100066045	12.693 ppm	0.0500 %	PASS 1.92 %
100 mA AC @ 1.0 kHz	0.1	0.099990389	0.0133 %	0.099936682	0.100063318	-96.109 ppm	0.0500 %	PASS 15.18 %
1.0 A AC @ 1.0 kHz	1.0	1.0001962	0.0133 %	0.99866682	1.00133318	0.0196 %	0.1200 %	PASS 14.71 %

Test date	14 March 2019 07:17
UUT Internal TEMP?	39.3
Destructive overloads?	81, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated