

Manufacturer	HEWLETT-PACKARD	Calibration date	March 13 2019
Model Number	3458A	Ambient Temperature	24.19 °C
Serial	MM-GPIB5	Relative Humidity	54.50 %
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	7.0 days ago	MFC since DCV ZERO	2.0 days ago
MFC since WBFLAT	0.0 days ago	MFC since WBGAIN	0.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2019-03-06 00:00:00
MFC Calibrate date Zero	2019-03-11 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	1988-10-01 00:00:00	CAL CONST 6.5V reference voltage	6.55013267529
CAL CONST 13V reference voltage	13.0979736088	CAL CONST 22V range positive zero	398.17816
CAL CONST 22V range negative zero	398.1776	CAL CONST DAC Linearity	-0.306704359243
CAL CONST 10KOHM true output resistance	10000.3963577	CAL CONST 10KOHM standard resistance	10000.1317094
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?	"17/01/2017,TEMP=34.3,3458F"	Test date	13 March 2019 18:13
DUT Internal TEMP?	37.0	DUT Calibrations number?	24
Self-test result?	0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"
Firmware	9,2	Options	0,0
CAL? 72	0.984921524	CAL? 1,1	39999.4076
CAL? 2,1	7.08200562	CAL? Res 73	0.984884579
CAL 0 TEMP	36.26	CAL 10V TEMP	37.16
CAL 10KOhm TEMP	36.74	CAL? DCI	0.984276544

Service information

CAL DUMP

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Destructive overloads?

88, DESTRUCTIVE OVERLOADS valid 2941

Reference

Direct MFC test, verification 5700MMB

DUT Condition

Test after reassembly

Test procedure : \$Id: hp3458a.py | Rev 1199 | 2019/03/12 02:16:41 MM \$

Source procedure : \$Id: f5700a.py | Rev 1198 | 2019/03/11 16:13:03 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	0.59 µV	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	PASS
Short 0.0 VDC	0.000000E+00	0.52 µV	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	PASS
Short 00.0 VDC	0.000000E+00	0.75 µV	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	PASS
Short 000.0 VDC	0.000000E+00	-6.50 µV	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	PASS
Short 0000.0 VDC	0.000000E+00	22.83 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	0.099999629	7.27 ppm	0.099998723	0.10000128	-3.715 ppm	5.50 ppm	PASS 29.09 %
-0.1 VDC (0.10 Range)	-0.1000000	-0.099999649	7.27 ppm	-0.10000128	-0.099998723	-3.509 ppm	5.50 ppm	PASS 27.48 %
0.1 VDC (1.00 Range)	0.1000000	0.099999567	7.27 ppm	0.099999093	0.10000091	-4.326 ppm	1.80 ppm	PASS 47.70 %
0.2 VDC (1.00 Range)	0.2000000	0.19999928	3.86 ppm	0.19999887	0.20000113	-3.623 ppm	1.80 ppm	PASS 64.00 %
1.0 VDC (1.00 Range)	1.0000000	1.0000021	3.86 ppm	0.99999434	1.0000057	2.094 ppm	1.80 ppm	PASS 37.00 %
-0.1 VDC (1.00 Range)	-0.1000000	-0.09999993	7.27 ppm	-0.10000091	-0.099999093	-0.704 ppm	1.80 ppm	PASS 7.76 %
-0.2 VDC (1.00 Range)	-0.2000000	-0.19999963	3.86 ppm	-0.20000113	-0.19999887	-1.873 ppm	1.80 ppm	PASS 33.09 %
-1.0 VDC (1.00 Range)	-1.0000000	-1.0000021	3.86 ppm	-1.0000057	-0.99999434	2.111 ppm	1.80 ppm	PASS 37.29 %
1.0 VDC (10.00 Range)	1.0000000	1.000002	3.86 ppm	0.99999559	1.0000044	2.005 ppm	0.55 ppm	PASS 45.46 %
2.0 VDC (10.00 Range)	2.0000000	2.0000043	2.77 ppm	1.9999934	2.0000066	2.132 ppm	0.55 ppm	PASS 64.20 %
10.0 VDC (10.00 Range)	10.0000000	10.00001	2.73 ppm	9.9999672	10.000033	0.979 ppm	0.55 ppm	PASS 29.85 %
-1.0 VDC (10.00 Range)	-1.0000000	-1.0000015	3.86 ppm	-1.0000044	-0.99999559	1.451 ppm	0.55 ppm	PASS 32.89 %
-2.0 VDC (10.00 Range)	-2.0000000	-2.000003	2.77 ppm	-2.0000066	-1.9999934	1.516 ppm	0.55 ppm	PASS 45.67 %
-10.0 VDC (10.00 Range)	-10.0000000	-10.000005	2.73 ppm	-10.000033	-9.9999672	0.498 ppm	0.55 ppm	PASS 15.20 %
10 VDC (100.00 Range)	10.0000000	10.000021	2.77 ppm	9.9999443	10.000056	2.068 ppm	2.80 ppm	PASS 37.12 %
20 VDC (100.00 Range)	20.0000000	20.000027	3.73 ppm	19.999869	20.000131	1.370 ppm	2.80 ppm	PASS 20.97 %
100 VDC (100.00 Range)	100.0000000	100.00016	3.73 ppm	99.999347	100.00065	1.618 ppm	2.80 ppm	PASS 24.78 %
-10 VDC (100.00 Range)	-10.0000000	-10.000003	2.77 ppm	-10.000056	-9.9999443	0.259 ppm	2.80 ppm	PASS 4.65 %
-20 VDC (100.00 Range)	-20.0000000	-20.000013	3.73 ppm	-20.000131	-19.999869	0.654 ppm	2.80 ppm	PASS 10.02 %
-100 VDC (100.00 Range)	-100.0000000	-100.00018	3.73 ppm	-100.00065	-99.999347	1.772 ppm	2.80 ppm	PASS 27.14 %
100 VDC (1000.00 Range)	100.0000000	100.00015	3.73 ppm	99.999367	100.00063	1.464 ppm	2.60 ppm	PASS 23.13 %
200 VDC (1000.00 Range)	200.0000000	200.00012	3.73 ppm	199.99873	200.00127	0.621 ppm	2.60 ppm	PASS 9.81 %
1000 VDC (1000.00 Range)	1000.0000000	999.99687	5.45 ppm	999.97995	1000.02	-3.133 ppm	2.60 ppm	PASS 15.62 %
-100 VDC (1000.00 Range)	-100.0000000	-100.00005	3.73 ppm	-100.00063	-99.999367	0.498 ppm	2.60 ppm	PASS 7.87 %
-200 VDC (1000.00 Range)	-200.0000000	-200.00016	3.73 ppm	-200.00127	-199.99873	0.788 ppm	2.60 ppm	PASS 12.45 %
-1000 VDC (1000.00 Range)	-1000.0000000	-999.99824	5.45 ppm	-1000.02	-999.97995	-1.760 ppm	2.60 ppm	PASS 44.55 %

DCV Linearity	1V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1.0999999	1.0999999	1.1000017	2.73 ppm	1.099996	1.100004	1.63 ppm	0.55 ppm	PASS 49.63 %
0.9999999	0.9999999	1.0000015	2.73 ppm	0.9999966	1.000003	1.63 ppm	0.55 ppm	PASS 49.60 %
0.9000000	0.9000000	0.9000016	2.73 ppm	0.899997	0.900003	1.79 ppm	0.55 ppm	PASS 54.60 %
0.8888888	0.8888888	0.8888904	2.73 ppm	0.8888859	0.8888917	1.76 ppm	0.55 ppm	PASS 53.67 %
0.8000000	0.8000000	0.8000014	2.73 ppm	0.7999974	0.8000026	1.73 ppm	0.55 ppm	PASS 52.81 %
0.7777777	0.7777777	0.7777790	2.73 ppm	0.7777751	0.7777803	1.65 ppm	0.55 ppm	PASS 50.23 %
0.7000000	0.7000000	0.7000011	2.73 ppm	0.6999977	0.7000023	1.62 ppm	0.55 ppm	PASS 49.33 %
0.6666666	0.6666666	0.6666677	2.73 ppm	0.6666644	0.6666688	1.71 ppm	0.55 ppm	PASS 52.21 %
0.6000000	0.6000000	0.6000011	2.73 ppm	0.599998	0.600002	1.76 ppm	0.55 ppm	PASS 53.51 %
0.5555555	0.5555555	0.5555565	2.73 ppm	0.5555537	0.5555573	1.83 ppm	0.55 ppm	PASS 55.77 %
0.5000000	0.5000000	0.5000009	2.73 ppm	0.4999984	0.5000016	1.87 ppm	0.55 ppm	PASS 57.13 %
0.4444444	0.4444444	0.4444453	2.73 ppm	0.4444429	0.4444459	1.93 ppm	0.55 ppm	PASS 58.70 %
0.4000000	0.4000000	0.4000008	2.73 ppm	0.3999987	0.4000013	1.94 ppm	0.55 ppm	PASS 59.00 %
0.3333333	0.3333333	0.3333339	2.73 ppm	0.3333322	0.3333344	1.91 ppm	0.55 ppm	PASS 58.19 %
0.3000000	0.3000000	0.3000006	2.73 ppm	0.299999	0.300001	2.03 ppm	0.55 ppm	PASS 61.77 %
0.2222222	0.2222222	0.2222227	2.73 ppm	0.2222215	0.2222229	2.12 ppm	0.55 ppm	PASS 64.65 %
0.2000000	0.2000000	0.2000004	2.73 ppm	0.1999993	0.2000007	1.81 ppm	0.55 ppm	PASS 55.12 %
0.1234567	0.1234567	0.12345702	2.73 ppm	0.1234563	0.1234571	2.63 ppm	0.55 ppm	PASS 80.14 %
0.1111111	0.1111111	0.1111113	2.73 ppm	0.1111107	0.1111115	2.09 ppm	0.55 ppm	PASS 63.58 %
0.1000000	0.1000000	0.1000002	2.73 ppm	0.09999967	0.1000003	1.91 ppm	0.55 ppm	PASS 58.20 %
0.0987654	0.0987654	0.0987654	3.86 ppm	0.09876496	0.09876584	-0.22 ppm	0.55 ppm	PASS 5.00 %
0.0111111	0.0111111	0.0111111	7.27 ppm	0.01111101	0.01111119	4.23 ppm	0.55 ppm	PASS 54.03 %
-0.0111111	-0.0111111	-0.01111119	7.27 ppm	-0.01111119	-0.01111101	7.78 ppm	0.55 ppm	PASS 99.49 %
-0.0987654	-0.0987654	-0.0987656	3.86 ppm	-0.09876584	-0.09876496	2.18 ppm	0.55 ppm	PASS 49.41 %
-0.1000000	-0.1000000	-0.1000002	2.73 ppm	-0.1000003	-0.09999967	1.94 ppm	0.55 ppm	PASS 58.99 %
-0.1111111	-0.1111111	-0.1111113	2.73 ppm	-0.1111115	-0.1111107	2.16 ppm	0.55 ppm	PASS 65.74 %
-0.1234567	-0.1234567	-0.1234570	2.73 ppm	-0.1234571	-0.1234563	2.07 ppm	0.55 ppm	PASS 63.01 %
-0.2000000	-0.2000000	-0.2000003	2.73 ppm	-0.2000007	-0.1999993	1.72 ppm	0.55 ppm	PASS 52.31 %
-0.2222222	-0.2222222	-0.2222226	2.73 ppm	-0.2222229	-0.2222215	1.82 ppm	0.55 ppm	PASS 55.39 %
-0.3000000	-0.3000000	-0.3000004	2.73 ppm	-0.300001	-0.299999	1.46 ppm	0.55 ppm	PASS 44.37 %
-0.3333333	-0.3333333	-0.3333338	2.73 ppm	-0.3333344	-0.3333322	1.59 ppm	0.55 ppm	PASS 48.56 %
-0.4000000	-0.4000000	-0.4000006	2.73 ppm	-0.4000013	-0.3999987	1.53 ppm	0.55 ppm	PASS 46.69 %
-0.4444444	-0.4444444	-0.4444450	2.73 ppm	-0.4444459	-0.4444429	1.41 ppm	0.55 ppm	PASS 42.92 %
-0.5000000	-0.5000000	-0.5000010	2.73 ppm	-0.5000016	-0.4999984	2.00 ppm	0.55 ppm	PASS 60.98 %
-0.5555555	-0.5555555	-0.5555563	2.73 ppm	-0.5555573	-0.5555537	1.43 ppm	0.55 ppm	PASS 43.73 %
-0.6000000	-0.6000000	-0.6000009	2.73 ppm	-0.600002	-0.599998	1.42 ppm	0.55 ppm	PASS 43.21 %
-0.6666666	-0.6666666	-0.6666674	2.73 ppm	-0.6666688	-0.6666644	1.27 ppm	0.55 ppm	PASS 38.65 %
-0.7000000	-0.7000000	-0.7000009	2.73 ppm	-0.7000023	-0.6999977	1.25 ppm	0.55 ppm	PASS 38.20 %
-0.7777777	-0.7777777	-0.7777788	2.73 ppm	-0.7777803	-0.7777751	1.35 ppm	0.55 ppm	PASS 41.18 %
-0.8000000	-0.8000000	-0.8000010	2.73 ppm	-0.8000026	-0.7999974	1.24 ppm	0.55 ppm	PASS 37.89 %
-0.8888888	-0.8888888	-0.8888899	2.73 ppm	-0.8888917	-0.8888859	1.26 ppm	0.55 ppm	PASS 38.29 %
-0.9000000	-0.9000000	-0.9000012	2.73 ppm	-0.900003	-0.899997	1.33 ppm	0.55 ppm	PASS 40.68 %
-0.9999999	-0.9999999	-1.0000012	2.73 ppm	-1.000003	-0.9999966	1.25 ppm	0.55 ppm	PASS 38.20 %
-1.0999999	-1.0999999	-1.1000013	2.73 ppm	-1.100004	-1.099996	1.28 ppm	0.55 ppm	PASS 39.12 %
DCV Linearity	10V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10.250000	10.250000	10.25001394	1.04 ppm	10.24998	10.25002	1.36 ppm	0.55 ppm	PASS 85.53 %
10.000000	10.000000	10.00001489	1.05 ppm	9.999984	10.00002	1.49 ppm	0.55 ppm	PASS 93.06 %
9.750000	9.750000	9.75001449	1.06 ppm	9.749984	9.750016	1.49 ppm	0.55 ppm	PASS 92.33 %
9.500000	9.500000	9.50001403	1.06 ppm	9.499985	9.500015	1.48 ppm	0.55 ppm	PASS 91.75 %
9.250000	9.250000	9.25001324	1.07 ppm	9.249985	9.250015	1.43 ppm	0.55 ppm	PASS 88.34 %
9.000000	9.000000	9.00001216	1.08 ppm	8.999985	9.000015	1.35 ppm	0.55 ppm	PASS 82.91 %
8.750000	8.750000	8.75001284	1.09 ppm	8.749986	8.750014	1.47 ppm	0.55 ppm	PASS 89.50 %
8.500000	8.500000	8.50001221	1.09 ppm	8.499986	8.500014	1.44 ppm	0.55 ppm	PASS 87.56 %
8.250000	8.250000	8.25001152	1.10 ppm	8.249986	8.250014	1.40 ppm	0.55 ppm	PASS 84.60 %
8.000000	8.000000	8.00001227	1.11 ppm	7.999987	8.000013	1.53 ppm	0.55 ppm	PASS 92.36 %
7.750000	7.750000	7.75001135	1.12 ppm	7.749987	7.750013	1.46 ppm	0.55 ppm	PASS 87.69 %
7.500000	7.500000	7.50001090	1.13 ppm	7.499987	7.500013	1.45 ppm	0.55 ppm	PASS 86.55 %

7.250000	7.250000	7.25001032	1.14 ppm	7.249988	7.250012	1.42 ppm	0.55 ppm	PASS 84.24 %
7.000000	7.000000	7.00000977	1.16 ppm	6.999988	7.000012	1.40 ppm	0.55 ppm	PASS 81.64 %
6.750000	6.750000	6.7500090	1.17 ppm	6.749988	6.750012	1.33 ppm	0.55 ppm	PASS 77.32 %
6.500000	6.500000	6.50000959	1.18 ppm	6.499989	6.500011	1.47 ppm	0.55 ppm	PASS 85.26 %
6.250000	6.250000	6.25000920	1.20 ppm	6.249989	6.250011	1.47 ppm	0.55 ppm	PASS 84.08 %
6.000000	6.000000	6.0000083	1.22 ppm	5.999989	6.000011	1.39 ppm	0.55 ppm	PASS 78.61 %
5.750000	5.750000	5.7500075	1.23 ppm	5.74999	5.75001	1.31 ppm	0.55 ppm	PASS 73.45 %
5.500000	5.500000	5.5000075	1.25 ppm	5.49999	5.50001	1.37 ppm	0.55 ppm	PASS 76.07 %
5.250000	5.250000	5.2500070	1.28 ppm	5.24999	5.25001	1.33 ppm	0.55 ppm	PASS 72.86 %
5.000000	5.000000	5.0000068	1.30 ppm	4.999991	5.000009	1.35 ppm	0.55 ppm	PASS 73.16 %
4.750000	4.750000	4.7500063	1.33 ppm	4.749991	4.750009	1.32 ppm	0.55 ppm	PASS 70.02 %
4.500000	4.500000	4.5000059	1.36 ppm	4.499991	4.500009	1.32 ppm	0.55 ppm	PASS 69.02 %
4.250000	4.250000	4.2500059	1.39 ppm	4.249992	4.250008	1.39 ppm	0.55 ppm	PASS 71.46 %
4.000000	4.000000	4.0000059	1.42 ppm	3.999992	4.000008	1.48 ppm	0.55 ppm	PASS 75.16 %
3.750000	3.750000	3.7500053	1.47 ppm	3.749992	3.750008	1.40 ppm	0.55 ppm	PASS 69.54 %
3.500000	3.500000	3.5000047	1.51 ppm	3.499993	3.500007	1.33 ppm	0.55 ppm	PASS 64.72 %
3.250000	3.250000	3.2500045	1.57 ppm	3.249993	3.250007	1.39 ppm	0.55 ppm	PASS 65.37 %
3.000000	3.000000	3.0000042	1.63 ppm	2.999993	3.000007	1.40 ppm	0.55 ppm	PASS 64.24 %
2.750000	2.750000	2.7500039	1.71 ppm	2.749994	2.750006	1.40 ppm	0.55 ppm	PASS 62.14 %
2.500000	2.500000	2.5000035	1.80 ppm	2.499994	2.500006	1.40 ppm	0.55 ppm	PASS 59.39 %
2.250000	2.250000	2.2500036	1.91 ppm	2.249994	2.250006	1.60 ppm	0.55 ppm	PASS 65.17 %
2.000000	2.000000	2.0000034	2.05 ppm	1.999995	2.000005	1.72 ppm	0.55 ppm	PASS 66.23 %
1.750000	1.750000	1.7500028	2.23 ppm	1.749995	1.750005	1.59 ppm	0.55 ppm	PASS 57.35 %
1.500000	1.500000	1.5000023	2.47 ppm	1.499995	1.500005	1.53 ppm	0.55 ppm	PASS 50.82 %
1.250000	1.250000	1.2500020	2.80 ppm	1.249996	1.250004	1.56 ppm	0.55 ppm	PASS 46.69 %
1.000000	1.000000	1.0000015	3.30 ppm	0.9999961	1.000004	1.48 ppm	0.55 ppm	PASS 38.57 %
0.750000	0.750000	0.7500011	4.13 ppm	0.7499965	0.7500035	1.48 ppm	0.55 ppm	PASS 31.67 %
0.500000	0.500000	0.5000009	5.80 ppm	0.4999968	0.5000032	1.90 ppm	0.55 ppm	PASS 29.88 %
0.250000	0.250000	0.2500004	10.80 ppm	0.2499972	0.2500028	1.53 ppm	0.55 ppm	PASS 13.47 %
0.100000	0.100000	0.1000001	25.80 ppm	0.09999737	0.1000026	0.60 ppm	0.55 ppm	PASS 2.27 %
-0.100000	-0.100000	-0.1000008	25.80 ppm	-0.1000026	-0.09999737	7.62 ppm	0.55 ppm	PASS 28.92 %
-0.250000	-0.250000	-0.2500007	10.80 ppm	-0.2500028	-0.2499972	2.90 ppm	0.55 ppm	PASS 25.54 %
-0.500000	-0.500000	-0.5000013	5.80 ppm	-0.5000032	-0.4999968	2.55 ppm	0.55 ppm	PASS 40.11 %
-0.750000	-0.750000	-0.7500015	4.13 ppm	-0.7500035	-0.7499965	2.04 ppm	0.55 ppm	PASS 43.67 %
-1.000000	-1.000000	-1.0000014	3.30 ppm	-1.000004	-0.9999961	1.43 ppm	0.55 ppm	PASS 37.21 %
-1.250000	-1.250000	-1.2500017	2.80 ppm	-1.250004	-1.249996	1.33 ppm	0.55 ppm	PASS 39.77 %
-1.500000	-1.500000	-1.5000020	2.47 ppm	-1.500005	-1.499995	1.31 ppm	0.55 ppm	PASS 43.45 %
-1.750000	-1.750000	-1.7500020	2.23 ppm	-1.750005	-1.749995	1.16 ppm	0.55 ppm	PASS 41.83 %
-2.000000	-2.000000	-2.0000020	2.05 ppm	-2.000005	-1.999995	0.99 ppm	0.55 ppm	PASS 38.04 %
-2.250000	-2.250000	-2.2500024	1.91 ppm	-2.250006	-2.249994	1.09 ppm	0.55 ppm	PASS 44.24 %
-2.500000	-2.500000	-2.5000027	1.80 ppm	-2.500006	-2.499994	1.09 ppm	0.55 ppm	PASS 46.38 %
-2.750000	-2.750000	-2.7500029	1.71 ppm	-2.750006	-2.749994	1.06 ppm	0.55 ppm	PASS 47.03 %
-3.000000	-3.000000	-3.0000029	1.63 ppm	-3.000007	-2.999993	0.96 ppm	0.55 ppm	PASS 44.23 %
-3.250000	-3.250000	-3.2500036	1.57 ppm	-3.250007	-3.249993	1.10 ppm	0.55 ppm	PASS 51.86 %
-3.500000	-3.500000	-3.5000038	1.51 ppm	-3.500007	-3.499993	1.07 ppm	0.55 ppm	PASS 52.06 %
-3.750000	-3.750000	-3.7500039	1.47 ppm	-3.750008	-3.749992	1.04 ppm	0.55 ppm	PASS 51.35 %
-4.000000	-4.000000	-4.0000039	1.42 ppm	-4.000008	-3.999992	0.96 ppm	0.55 ppm	PASS 48.98 %
-4.250000	-4.250000	-4.2500044	1.39 ppm	-4.250008	-4.249992	1.03 ppm	0.55 ppm	PASS 53.15 %
-4.500000	-4.500000	-4.5000043	1.36 ppm	-4.500009	-4.499991	0.95 ppm	0.55 ppm	PASS 49.71 %
-4.750000	-4.750000	-4.7500051	1.33 ppm	-4.750009	-4.749991	1.07 ppm	0.55 ppm	PASS 56.65 %
-5.000000	-5.000000	-5.0000051	1.30 ppm	-5.000009	-4.999991	1.02 ppm	0.55 ppm	PASS 55.12 %
-5.250000	-5.250000	-5.2500056	1.28 ppm	-5.25001	-5.24999	1.07 ppm	0.55 ppm	PASS 58.24 %
-5.500000	-5.500000	-5.5000061	1.25 ppm	-5.50001	-5.49999	1.10 ppm	0.55 ppm	PASS 61.17 %
-5.750000	-5.750000	-5.7500066	1.23 ppm	-5.75001	-5.74999	1.14 ppm	0.55 ppm	PASS 64.28 %
-6.000000	-6.000000	-6.0000067	1.22 ppm	-6.000011	-5.999989	1.12 ppm	0.55 ppm	PASS 63.15 %
-6.250000	-6.250000	-6.2500074	1.20 ppm	-6.250011	-6.249989	1.19 ppm	0.55 ppm	PASS 68.03 %
-6.500000	-6.500000	-6.5000076	1.18 ppm	-6.500011	-6.499989	1.17 ppm	0.55 ppm	PASS 67.85 %
-6.750000	-6.750000	-6.7500086	1.17 ppm	-6.750012	-6.749988	1.27 ppm	0.55 ppm	PASS 73.92 %
-7.000000	-7.000000	-7.0000081	1.16 ppm	-7.000012	-6.999988	1.15 ppm	0.55 ppm	PASS 67.34 %
-7.250000	-7.250000	-7.2500077	1.14 ppm	-7.250012	-7.249988	1.06 ppm	0.55 ppm	PASS 62.95 %
-7.500000	-7.500000	-7.5000075	1.13 ppm	-7.500013	-7.499987	1.01 ppm	0.55 ppm	PASS 59.87 %

-7.750000	-7.750000	-7.7500075	1.12 ppm	-7.750013	-7.749987	0.96 ppm	0.55 ppm	PASS 57.77 %
-8.000000	-8.000000	-8.0000072	1.11 ppm	-8.000013	-7.999987	0.90 ppm	0.55 ppm	PASS 54.16 %
-8.250000	-8.250000	-8.2500080	1.10 ppm	-8.250014	-8.249986	0.97 ppm	0.55 ppm	PASS 58.55 %
-8.500000	-8.500000	-8.5000081	1.09 ppm	-8.500014	-8.499986	0.95 ppm	0.55 ppm	PASS 57.77 %
-8.750000	-8.750000	-8.7500093	1.09 ppm	-8.750014	-8.749986	1.06 ppm	0.55 ppm	PASS 64.72 %
-9.000000	-9.000000	-9.0000085	1.08 ppm	-9.000015	-8.999985	0.95 ppm	0.55 ppm	PASS 58.14 %
-9.250000	-9.250000	-9.2500088	1.07 ppm	-9.250015	-9.249985	0.95 ppm	0.55 ppm	PASS 58.82 %
-9.500000	-9.500000	-9.5000090	1.06 ppm	-9.500015	-9.499985	0.95 ppm	0.55 ppm	PASS 59.04 %
-9.750000	-9.750000	-9.7500107	1.06 ppm	-9.750016	-9.749984	1.09 ppm	0.55 ppm	PASS 67.90 %
-10.000000	-10.000000	-10.0000106	1.05 ppm	-10.00002	-9.999984	1.06 ppm	0.55 ppm	PASS 66.03 %
-10.250000	-10.250000	-10.2500107	1.04 ppm	-10.25002	-10.24998	1.05 ppm	0.55 ppm	PASS 65.81 %
DCV Linearity	100V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
100.99999	100.99999	101.0001846	2.73 ppm	100.99966	101.00032	1.93 ppm	0.55 ppm	PASS 42.89 %
100.10101	100.10101	100.1011879	2.73 ppm	100.10068	100.10134	1.78 ppm	0.55 ppm	PASS 39.65 %
100.00000	100.00000	100.0001550	2.73 ppm	99.999672	100.00033	1.55 ppm	0.55 ppm	PASS 34.61 %
99.99999	99.99999	100.0001376	2.73 ppm	99.999662	100.00032	1.48 ppm	0.55 ppm	PASS 32.94 %
90.00000	90.00000	90.0001139	2.73 ppm	89.999705	90.000295	1.27 ppm	0.55 ppm	PASS 38.59 %
88.88888	88.88888	88.8889951	2.73 ppm	88.888588	88.889172	1.29 ppm	0.55 ppm	PASS 39.48 %
80.00000	80.00000	80.0000892	2.73 ppm	79.999738	80.000262	1.12 ppm	0.55 ppm	PASS 34.00 %
77.77777	77.77777	77.7778561	2.73 ppm	77.777515	77.778025	1.11 ppm	0.55 ppm	PASS 33.74 %
70.00000	70.00000	70.0000721	2.73 ppm	69.99977	70.00023	1.03 ppm	0.55 ppm	PASS 31.42 %
66.66666	66.66666	66.6667276	2.73 ppm	66.666441	66.666879	1.01 ppm	0.55 ppm	PASS 30.90 %
60.00000	60.00000	60.0000644	2.73 ppm	59.999803	60.000197	1.07 ppm	0.55 ppm	PASS 32.72 %
55.55555	55.55555	55.5556083	2.73 ppm	55.555368	55.555732	1.05 ppm	0.55 ppm	PASS 31.99 %
50.00000	50.00000	50.0000528	2.73 ppm	49.999836	50.000164	1.06 ppm	0.55 ppm	PASS 32.17 %
44.44444	44.44444	44.4444836	2.73 ppm	44.444294	44.444586	0.98 ppm	0.55 ppm	PASS 29.94 %
40.00000	40.00000	40.0000483	2.73 ppm	39.999869	40.000131	1.21 ppm	0.55 ppm	PASS 36.84 %
33.33333	33.33333	33.3333710	2.73 ppm	33.333221	33.333439	1.23 ppm	0.55 ppm	PASS 37.53 %
30.00000	30.00000	30.0000306	2.73 ppm	29.999902	30.000098	1.02 ppm	0.55 ppm	PASS 31.07 %
22.22222	22.22222	22.2222463	2.73 ppm	22.222147	22.222293	1.18 ppm	0.55 ppm	PASS 36.08 %
20.00000	20.00000	20.0000357	2.73 ppm	19.999934	20.000066	1.79 ppm	0.55 ppm	PASS 54.44 %
11.11111	11.11111	11.1111356	2.73 ppm	11.111075	11.111147	2.21 ppm	0.55 ppm	PASS 67.53 %
10.00000	10.00000	10.0000196	3.86 ppm	9.9999559	10.000044	1.96 ppm	0.55 ppm	PASS 44.47 %
9.87654	9.87654	9.8765608	7.27 ppm	9.8764658	9.8766202	1.81 ppm	0.55 ppm	PASS 23.09 %
-9.87654	-9.87654	-9.8765608	7.27 ppm	-9.8766202	-9.8764658	1.81 ppm	0.55 ppm	PASS 23.09 %
-10.00000	-10.00000	-10.0000199	3.86 ppm	-10.000044	-9.9999559	1.99 ppm	0.55 ppm	PASS 45.07 %
-11.11111	-11.11111	-11.1111292	2.73 ppm	-11.111147	-11.111075	1.64 ppm	0.55 ppm	PASS 49.95 %
-20.00000	-20.00000	-20.0000355	2.73 ppm	-20.000066	-19.999934	1.78 ppm	0.55 ppm	PASS 54.18 %
-22.22222	-22.22222	-22.2222517	2.73 ppm	-22.222293	-22.222147	1.42 ppm	0.55 ppm	PASS 43.43 %
-30.00000	-30.00000	-30.0000491	2.73 ppm	-30.000098	-29.999902	1.64 ppm	0.55 ppm	PASS 49.89 %
-33.33333	-33.33333	-33.3333873	2.73 ppm	-33.333439	-33.333221	1.72 ppm	0.55 ppm	PASS 52.38 %
-40.00000	-40.00000	-40.0000681	2.73 ppm	-40.000131	-39.999869	1.70 ppm	0.55 ppm	PASS 51.90 %
-44.44444	-44.44444	-44.4445082	2.73 ppm	-44.444586	-44.444294	1.53 ppm	0.55 ppm	PASS 46.80 %
-50.00000	-50.00000	-50.0000725	2.73 ppm	-50.000164	-49.999836	1.45 ppm	0.55 ppm	PASS 44.22 %
-55.55555	-55.55555	-55.5556292	2.73 ppm	-55.555732	-55.555368	1.43 ppm	0.55 ppm	PASS 43.45 %
-60.00000	-60.00000	-60.0000891	2.73 ppm	-60.000197	-59.999803	1.49 ppm	0.55 ppm	PASS 45.30 %
-66.66666	-66.66666	-66.6667579	2.73 ppm	-66.666879	-66.666441	1.47 ppm	0.55 ppm	PASS 44.75 %
-70.00000	-70.00000	-70.0000959	2.73 ppm	-70.00023	-69.99977	1.37 ppm	0.55 ppm	PASS 41.79 %
-77.77777	-77.77777	-77.7778829	2.73 ppm	-77.778025	-77.777515	1.45 ppm	0.55 ppm	PASS 44.27 %
-80.00000	-80.00000	-80.0001100	2.73 ppm	-80.000262	-79.999738	1.38 ppm	0.55 ppm	PASS 41.93 %
-88.88888	-88.88888	-88.8890011	2.73 ppm	-88.889172	-88.888588	1.36 ppm	0.55 ppm	PASS 41.53 %
-90.00000	-90.00000	-90.0001278	2.73 ppm	-90.000295	-89.999705	1.42 ppm	0.55 ppm	PASS 43.29 %
-99.99999	-99.99999	-100.0001357	2.73 ppm	-100.00032	-99.999662	1.46 ppm	0.55 ppm	PASS 70.02 %
-100.00000	-100.00000	-100.0001418	2.73 ppm	-100.00033	-99.999672	1.42 ppm	0.55 ppm	PASS 68.17 %
-100.10101	-100.10101	-100.1011435	2.73 ppm	-100.10134	-100.10068	1.33 ppm	0.55 ppm	PASS 64.16 %
-100.99999	-100.99999	-101.0001276	2.73 ppm	-101.00032	-100.99966	1.36 ppm	0.55 ppm	PASS 65.85 %

OHM Test	1 Ohm to 1 GOhm	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1 Ω	0.9999198	0.99991037	32.0 ppm	9.9987980E-01	9.9995980E-01	-9.427 ppm	8.0 ppm	PASS 23.57 %
1.9 Ω	1.8998043	1.8998566	25.0 ppm	1.8997416E+00	1.8998670E+00	27.541 ppm	8.0 ppm	PASS 83.46 %
10 Ω	9.999089	9.9990542	5.0 ppm	9.9989590E+00	9.9992190E+00	-3.482 ppm	8.0 ppm	PASS 26.78 %
19 Ω	18.999481	18.999419	4.0 ppm	1.8999291E+01	1.8999671E+01	-3.280 ppm	6.0 ppm	PASS 32.80 %
100 Ω	99.99625	99.996181	1.7 ppm	9.9995480E+01	9.9997020E+01	-0.688 ppm	6.0 ppm	PASS 8.93 %
190 Ω	189.99771	189.99762	1.7 ppm	1.8999697E+02	1.8999845E+02	-0.485 ppm	2.2 ppm	PASS 12.43 %
1.0 kΩ	999.9961	999.99439	1.7 ppm	9.9999220E+02	1.0000000E+03	-1.714 ppm	2.2 ppm	PASS 43.96 %
1.9 kΩ	1899.9985	1899.9967	1.7 ppm	1.8999911E+03	1.9000059E+03	-0.963 ppm	2.2 ppm	PASS 24.70 %
10 kΩ	10000.401	10000.377	1.6 ppm	1.0000363E+04	1.0000439E+04	-2.425 ppm	2.2 ppm	PASS 63.83 %
19 kΩ	18999.389	18999.357	1.7 ppm	1.8999315E+04	1.8999463E+04	-1.678 ppm	2.2 ppm	PASS 43.04 %
100 kΩ	100002.57	100001.77	2.0 ppm	1.0000215E+05	1.0000299E+05	-8.027 ppm	2.2 ppm	FAIL 191.11 %
190 kΩ	189997.06	189996.38	2.0 ppm	1.8999459E+05	1.8999953E+05	-3.602 ppm	11.0 ppm	PASS 27.71 %
1.0 MΩ	1000007	999998.88	2.5 ppm	9.9999350E+05	1.0000205E+06	-8.116 ppm	11.0 ppm	PASS 60.12 %
1.9 MΩ	1899944.4	1899926.2	3.0 ppm	1.8998342E+06	1.9000546E+06	-9.584 ppm	55.0 ppm	PASS 16.52 %
10 MΩ	9999616	9999349.6	10.0 ppm	9.9989660E+06	1.0000266E+07	-26.642 ppm	55.0 ppm	PASS 40.99 %
19 MΩ	18998199	18998463	20.0 ppm	1.8988130E+07	1.9008268E+07	13.899 ppm	510.0 ppm	PASS 2.62 %
100 MΩ	1.0000711E+08	1.0001684E+08	50.0 ppm	9.9951106E+07	1.0006311E+08	97.329 ppm	510.0 ppm	PASS 17.38 %

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 -0.0000002 Ω	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	Range 0.0000137 Ω	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range -0.0000180 Ω	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range -0.0001079 Ω	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.0000000 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.0611892 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range -1.5471225 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range -0.6836122 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range -0.3597959 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 0.2271677 Ω	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	Range 0.2255760 Ω	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.2252361 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range 0.2138762 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.1852846 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.2555559 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range -0.5756762 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 0.9354739 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 1.2592918 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	0.99995505	129.09	0.99955091	1.00044909	VAC	-44.948 ppm	320.0 ppm	PASS 10.01 %
1.0 VAC @ 1.0 MHz	1.0	1.0130508	0.2500 %	0.9874	1.0126	VAC	1.3051 %	1.0100 %	FAIL 103.58 %
10 VAC @ 40 Hz	10	10.001485	0.0073 %	9.8982682	10.1017318	VAC	0.0148 %	1.0100 %	PASS 1.46 %
10 VAC @ 200 Hz	10	10.000476	73.18	9.9983682	10.0016318	VAC	47.587 ppm	90.0 ppm	PASS 29.16 %
10 VAC @ 500 Hz	10	10.000471	73.18	9.9983682	10.0016318	VAC	47.080 ppm	90.0 ppm	PASS 28.85 %
10 VAC @ 50.0 kHz	10	10.00064	129.09	9.9955091	10.0044909	VAC	63.979 ppm	320.0 ppm	PASS 14.25 %
10 VAC @ 1.0 MHz	10	10.132153	0.3000 %	9.869	10.131	VAC	1.3215 %	1.0100 %	FAIL 100.88 %

ACV SYNC Test	DUT	w/Guardband	Low Limit	Hi limit	Measured	24h spec	Result, % spec
0.01 V AC+DC @ 10 Hz	0.010000358	0.0312 %	0.009991	0.010009	0.0036 %	0.0600 %	PASS 3.92 %
0.01 V AC+DC @ 20 Hz	0.0099999379	0.0312 %	0.009991	0.010009	-0.0006 %	0.0600 %	PASS 0.68 %
0.01 V AC+DC @ 40 Hz	0.010000085	0.0312 %	0.009991	0.010009	0.0008 %	0.0600 %	PASS 0.93 %
0.01 V AC+DC @ 100 Hz	0.0099993685	0.0312 %	0.009994	0.010006	-0.0063 %	0.0310 %	PASS 10.15 %
0.01 V AC+DC @ 1.0 kHz	0.0099998186	0.0312 %	0.009994	0.010006	-0.0018 %	0.0310 %	PASS 2.92 %
0.01 V AC+DC @ 10.0 kHz	0.01000146	0.0312 %	0.009993	0.010007	0.0146 %	0.0410 %	PASS 20.21 %
0.01 V AC+DC @ 20.0 kHz	0.010000575	0.0312 %	0.009993	0.010007	0.0057 %	0.0410 %	PASS 7.96 %
0.01 V AC+DC @ 50.0 kHz	0.009998445	0.0447 %	0.009984	0.010016	-0.0156 %	0.1110 %	PASS 9.99 %
0.01 V AC+DC @ 100.0 kHz	0.0099817758	0.0773 %	0.009941	0.010059	-0.1822 %	0.5110 %	PASS 30.98 %
0.01 V AC+DC @ 300.0 kHz	0.0098360269	0.1500 %	0.009583	0.010417	-1.6397 %	4.0200 %	PASS 39.32 %
0.01 V AC+DC @ 500.0 kHz	0.0096189742	0.2500 %	0.006770	0.013230	-3.8103 %	32.0500 %	PASS 11.80 %
0.01 V AC+DC @ 1.0 MHz	0.0087098712	0.4000 %	0.006755	0.013245	-12.9013 %	32.0500 %	PASS 39.76 %
0.03 V AC+DC @ 10 Hz	0.030005152	0.0121 %	0.029993	0.030007	0.0172 %	0.0110 %	PASS 74.23 %
0.03 V AC+DC @ 20 Hz	0.030003462	0.0121 %	0.029993	0.030007	0.0115 %	0.0110 %	PASS 49.88 %
0.03 V AC+DC @ 40 Hz	0.030003346	0.0121 %	0.029993	0.030007	0.0112 %	0.0110 %	PASS 48.21 %
0.03 V AC+DC @ 100 Hz	0.030001596	0.0121 %	0.029994	0.030006	0.0053 %	0.0090 %	PASS 25.17 %
0.03 V AC+DC @ 1.0 kHz	0.030002174	0.0121 %	0.029994	0.030006	0.0072 %	0.0090 %	PASS 34.28 %
0.03 V AC+DC @ 10.0 kHz	0.030003659	0.0121 %	0.029992	0.030008	0.0122 %	0.0160 %	PASS 43.35 %
0.03 V AC+DC @ 20.0 kHz	0.030002376	0.0121 %	0.029992	0.030008	0.0079 %	0.0160 %	PASS 28.15 %
0.03 V AC+DC @ 50.0 kHz	0.030000821	0.0256 %	0.029983	0.030017	0.0027 %	0.0320 %	PASS 4.75 %
0.03 V AC+DC @ 100.0 kHz	0.029991726	0.0591 %	0.029958	0.030042	-0.0276 %	0.0820 %	PASS 19.55 %
0.03 V AC+DC @ 300.0 kHz	0.029935196	0.0964 %	0.029878	0.030122	-0.2160 %	0.3100 %	PASS 53.16 %
0.03 V AC+DC @ 500.0 kHz	0.029890512	0.1500 %	0.029652	0.030348	-0.3650 %	1.0100 %	PASS 31.46 %
0.03 V AC+DC @ 1.0 MHz	0.029891262	0.3000 %	0.029607	0.030393	-0.3625 %	1.0100 %	PASS 27.67 %
0.1 V AC+DC @ 10 Hz	0.1000011	0.0121 %	0.099977	0.100023	0.0011 %	0.0110 %	PASS 4.75 %
0.1 V AC+DC @ 20 Hz	0.099995879	0.0121 %	0.099977	0.100023	-0.0041 %	0.0110 %	PASS 17.81 %
0.1 V AC+DC @ 40 Hz	0.099995117	0.0121 %	0.099977	0.100023	-0.0049 %	0.0110 %	PASS 21.11 %
0.1 V AC+DC @ 100 Hz	0.099993778	0.0121 %	0.099979	0.100021	-0.0062 %	0.0090 %	PASS 29.44 %
0.1 V AC+DC @ 1.0 kHz	0.099997347	0.0121 %	0.099979	0.100021	-0.0027 %	0.0090 %	PASS 12.55 %
0.1 V AC+DC @ 10.0 kHz	0.099997297	0.0121 %	0.099972	0.100028	-0.0027 %	0.0160 %	PASS 9.61 %
0.1 V AC+DC @ 20.0 kHz	0.099993718	0.0121 %	0.099972	0.100028	-0.0063 %	0.0160 %	PASS 22.33 %
0.1 V AC+DC @ 50.0 kHz	0.099985605	0.0256 %	0.099942	0.100058	-0.0144 %	0.0320 %	PASS 24.98 %
0.1 V AC+DC @ 100.0 kHz	0.099952004	0.0591 %	0.099859	0.100141	-0.0480 %	0.0820 %	PASS 34.02 %
0.1 V AC+DC @ 300.0 kHz	0.099762329	0.0964 %	0.099594	0.100406	-0.2377 %	0.3100 %	PASS 58.49 %
0.1 V AC+DC @ 500.0 kHz	0.099624025	0.1500 %	0.098840	0.101160	-0.3760 %	1.0100 %	PASS 32.41 %
0.1 V AC+DC @ 1.0 MHz	0.099872785	0.3000 %	0.098690	0.101310	-0.1272 %	1.0100 %	PASS 9.71 %
0.3 V AC+DC @ 10 Hz	0.30000171	0.0050 %	0.299952	0.300048	0.0006 %	0.0110 %	PASS 3.57 %
0.3 V AC+DC @ 20 Hz	0.29998561	0.0050 %	0.299952	0.300048	-0.0048 %	0.0110 %	PASS 30.07 %
0.3 V AC+DC @ 40 Hz	0.29998151	0.0050 %	0.299952	0.300048	-0.0062 %	0.0110 %	PASS 38.63 %
0.3 V AC+DC @ 100 Hz	0.29998229	0.0050 %	0.299958	0.300042	-0.0059 %	0.0090 %	PASS 42.31 %
0.3 V AC+DC @ 1.0 kHz	0.29999129	0.0050 %	0.299958	0.300042	-0.0029 %	0.0090 %	PASS 20.80 %
0.3 V AC+DC @ 10.0 kHz	0.29999267	0.0050 %	0.299937	0.300063	-0.0024 %	0.0160 %	PASS 11.66 %
0.3 V AC+DC @ 20.0 kHz	0.29997163	0.0050 %	0.299937	0.300063	-0.0095 %	0.0160 %	PASS 45.12 %
0.3 V AC+DC @ 50.0 kHz	0.29998103	0.0085 %	0.299878	0.300122	-0.0063 %	0.0320 %	PASS 15.59 %
0.3 V AC+DC @ 100.0 kHz	0.30001033	0.0138 %	0.299713	0.300287	0.0034 %	0.0820 %	PASS 3.59 %
0.3 V AC+DC @ 300.0 kHz	0.30030867	0.0425 %	0.298942	0.301058	0.1029 %	0.3100 %	PASS 29.18 %
0.3 V AC+DC @ 500.0 kHz	0.3008955	0.1100 %	0.296640	0.303360	0.2985 %	1.0100 %	PASS 26.65 %
0.3 V AC+DC @ 1.0 MHz	0.30255415	0.1800 %	0.296430	0.303570	0.8514 %	1.0100 %	PASS 71.54 %
1.0 V AC+DC @ 10 Hz	1.0000548	0.0050 %	0.999840	1.000160	0.0055 %	0.0110 %	PASS 34.36 %
1.0 V AC+DC @ 20 Hz	1.0000049	0.0050 %	0.999840	1.000160	0.0005 %	0.0110 %	PASS 3.06 %
1.0 V AC+DC @ 40 Hz	0.99999315	0.0050 %	0.999840	1.000160	-0.0007 %	0.0110 %	PASS 4.29 %
1.0 V AC+DC @ 100 Hz	0.99998762	0.0050 %	0.999860	1.000140	-0.0012 %	0.0090 %	PASS 8.87 %
1.0 V AC+DC @ 1.0 kHz	1.0000194	0.0050 %	0.999860	1.000140	0.0019 %	0.0090 %	PASS 13.90 %
1.0 V AC+DC @ 10.0 kHz	1.0000056	0.0050 %	0.999790	1.000210	0.0006 %	0.0160 %	PASS 2.69 %
1.0 V AC+DC @ 20.0 kHz	0.99996255	0.0050 %	0.999790	1.000210	-0.0037 %	0.0160 %	PASS 17.87 %
1.0 V AC+DC @ 50.0 kHz	0.99997178	0.0085 %	0.999595	1.000405	-0.0028 %	0.0320 %	PASS 6.96 %
1.0 V AC+DC @ 100.0 kHz	1.0000191	0.0138 %	0.999042	1.000958	0.0019 %	0.0820 %	PASS 1.99 %

1.0 V AC+DC @ 300.0 kHz	1.0011041	0.0425 %	0.996475	1.003525	0.1104 %	0.3100 %	PASS 31.32 %
1.0 V AC+DC @ 500.0 kHz	1.0030858	0.1100 %	0.988800	1.011200	0.3086 %	1.0100 %	PASS 27.55 %
1.0 V AC+DC @ 1.0 MHz	1.0107363	0.1800 %	0.988100	1.011900	1.0736 %	1.0100 %	PASS 90.22 %
3.0 V AC+DC @ 10 Hz	2.9999928	0.0048 %	2.999525	3.000475	-0.0002 %	0.0110 %	PASS 1.51 %
3.0 V AC+DC @ 20 Hz	2.9998345	0.0048 %	2.999525	3.000475	-0.0055 %	0.0110 %	PASS 34.87 %
3.0 V AC+DC @ 40 Hz	2.9998003	0.0048 %	2.999525	3.000475	-0.0067 %	0.0110 %	PASS 42.09 %
3.0 V AC+DC @ 100 Hz	2.9997959	0.0048 %	2.999585	3.000415	-0.0068 %	0.0090 %	PASS 49.22 %
3.0 V AC+DC @ 1.0 kHz	2.9998358	0.0048 %	2.999585	3.000415	-0.0055 %	0.0090 %	PASS 39.60 %
3.0 V AC+DC @ 10.0 kHz	2.9997862	0.0048 %	2.999375	3.000625	-0.0071 %	0.0160 %	PASS 34.23 %
3.0 V AC+DC @ 20.0 kHz	2.9998697	0.0048 %	2.999375	3.000625	-0.0043 %	0.0160 %	PASS 20.86 %
3.0 V AC+DC @ 50.0 kHz	3.0000645	0.0085 %	2.998784	3.001216	0.0022 %	0.0320 %	PASS 5.31 %
3.0 V AC+DC @ 100.0 kHz	2.9999428	0.0121 %	2.997176	3.002824	-0.0019 %	0.0820 %	PASS 2.02 %
3.0 V AC+DC @ 300.0 kHz	2.9992574	0.0336 %	2.989691	3.010309	-0.0248 %	0.3100 %	PASS 7.20 %
3.0 V AC+DC @ 500.0 kHz	3.004014	0.1100 %	2.966400	3.033600	0.1338 %	1.0100 %	PASS 11.95 %
3.0 V AC+DC @ 1.0 MHz	3.0278652	0.1700 %	2.964600	3.035400	0.9288 %	1.0100 %	PASS 78.72 %
10.0 V AC+DC @ 10 Hz	10.000472	0.0048 %	9.998418	10.001582	0.0047 %	0.0110 %	PASS 29.85 %
10.0 V AC+DC @ 20 Hz	9.9999518	0.0048 %	9.998418	10.001582	-0.0005 %	0.0110 %	PASS 3.05 %
10.0 V AC+DC @ 40 Hz	9.9998044	0.0048 %	9.998418	10.001582	-0.0020 %	0.0110 %	PASS 12.36 %
10.0 V AC+DC @ 100 Hz	9.9997432	0.0048 %	9.998618	10.001382	-0.0026 %	0.0090 %	PASS 18.58 %
10.0 V AC+DC @ 1.0 kHz	9.9999339	0.0048 %	9.998618	10.001382	-0.0007 %	0.0090 %	PASS 4.78 %
10.0 V AC+DC @ 10.0 kHz	9.9997128	0.0048 %	9.997918	10.002082	-0.0029 %	0.0160 %	PASS 13.80 %
10.0 V AC+DC @ 20.0 kHz	10.000011	0.0048 %	9.997918	10.002082	0.0001 %	0.0160 %	PASS 0.55 %
10.0 V AC+DC @ 50.0 kHz	10.0005	0.0085 %	9.995945	10.004054	0.0050 %	0.0320 %	PASS 12.34 %
10.0 V AC+DC @ 100.0 kHz	9.9995845	0.0121 %	9.990586	10.009414	-0.0042 %	0.0820 %	PASS 4.41 %
10.0 V AC+DC @ 300.0 kHz	9.9981115	0.0336 %	9.965636	10.034364	-0.0189 %	0.3100 %	PASS 5.50 %
10.0 V AC+DC @ 500.0 kHz	10.014038	0.1100 %	9.888000	10.112000	0.1404 %	1.0100 %	PASS 12.53 %
10.0 V AC+DC @ 1.0 MHz	10.112928	0.1700 %	9.882000	10.118000	1.1293 %	1.0100 %	PASS 95.70 %
30 V AC+DC @ 10 Hz	29.999268	0.0060 %	29.990995	30.009005	-0.0024 %	0.0240 %	PASS 8.13 %
30 V AC+DC @ 20 Hz	29.997577	0.0060 %	29.990995	30.009005	-0.0081 %	0.0240 %	PASS 26.91 %
30 V AC+DC @ 40 Hz	29.997236	0.0060 %	29.990995	30.009005	-0.0092 %	0.0240 %	PASS 30.70 %
30 V AC+DC @ 100 Hz	29.99728	0.0060 %	29.991595	30.008405	-0.0091 %	0.0220 %	PASS 32.36 %
30 V AC+DC @ 1.0 kHz	29.997728	0.0060 %	29.991595	30.008405	-0.0076 %	0.0220 %	PASS 27.03 %
30 V AC+DC @ 10.0 kHz	29.998075	0.0060 %	29.991595	30.008405	-0.0064 %	0.0220 %	PASS 22.90 %
30 V AC+DC @ 20.0 kHz	29.998819	0.0060 %	29.991595	30.008405	-0.0039 %	0.0220 %	PASS 14.05 %
30 V AC+DC @ 50.0 kHz	30.001854	0.0060 %	29.987095	30.012905	0.0062 %	0.0370 %	PASS 14.37 %
30 V AC+DC @ 100.0 kHz	30.004784	0.0174 %	29.958191	30.041809	0.0159 %	0.1220 %	PASS 11.44 %
30 V AC+DC @ 300.0 kHz	30.043813	0.0991 %	29.847273	30.152727	0.1460 %	0.4100 %	PASS 28.69 %
30 V AC+DC @ 500.0 kHz	30.127177	0.5200 %	29.391000	30.609000	0.4239 %	1.5100 %	PASS 20.88 %
100.0 V AC+DC @ 10 Hz	100.00283	0.0060 %	99.969982	100.030018	0.0028 %	0.0240 %	PASS 9.41 %
100.0 V AC+DC @ 20 Hz	99.997807	0.0060 %	99.969982	100.030018	-0.0022 %	0.0240 %	PASS 7.31 %
100.0 V AC+DC @ 40 Hz	99.996556	0.0060 %	99.969982	100.030018	-0.0034 %	0.0240 %	PASS 11.47 %
100.0 V AC+DC @ 100 Hz	99.995974	0.0060 %	99.971982	100.028018	-0.0040 %	0.0220 %	PASS 14.37 %
100.0 V AC+DC @ 1.0 kHz	99.997999	0.0060 %	99.971982	100.028018	-0.0020 %	0.0220 %	PASS 7.14 %
100.0 V AC+DC @ 10.0 kHz	100.00117	0.0060 %	99.971982	100.028018	0.0012 %	0.0220 %	PASS 4.16 %
100.0 V AC+DC @ 20.0 kHz	100.00352	0.0060 %	99.971982	100.028018	0.0035 %	0.0220 %	PASS 12.50 %
100.0 V AC+DC @ 50.0 kHz	100.01175	0.0095 %	99.953455	100.046545	0.0117 %	0.0370 %	PASS 25.17 %
100.0 V AC+DC @ 100.0 kHz	100.01605	0.0174 %	99.860636	100.139364	0.0160 %	0.1220 %	PASS 11.51 %
300.0 V AC+DC @ 100 Hz	299.93045	0.0079 %	299.850408	300.149592	-0.0232 %	0.0420 %	PASS 46.16 %
300.0 V AC+DC @ 1.0 kHz	299.93961	0.0079 %	299.850408	300.149592	-0.0201 %	0.0420 %	PASS 40.08 %
300.0 V AC+DC @ 10.0 kHz	149.96502	0.0079 %	299.790408	300.209592	-50.0117 %	0.0620 %	FAIL 71217.33 %
300.0 V AC+DC @ 20.0 kHz	149.96272	0.0110 %	299.780865	300.219135	-50.0124 %	0.0620 %	FAIL 68132.18 %
300.0 V AC+DC @ 50.0 kHz	150.01108	0.0110 %	299.600865	300.399135	-49.9963 %	0.1220 %	FAIL 37477.09 %
750.0 V AC+DC @ 100 Hz	749.85558	0.0245 %	749.501498	750.498502	-0.0193 %	0.0420 %	PASS 28.58 %
750.0 V AC+DC @ 1.0 kHz	749.89393	0.0660 %	749.190000	750.810000	-0.0141 %	0.0420 %	PASS 12.99 %
750.0 V AC+DC @ 10.0 kHz	749.89352	0.0079 %	749.476020	750.523980	-0.0142 %	0.0620 %	PASS 20.06 %
750.0 V AC+DC @ 20.0 kHz	749.89285	0.0079 %	749.476020	750.523980	-0.0143 %	0.0620 %	PASS 20.19 %

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	-2.9588512E-11						INFO
50 nADC	5E-08	4.9998538E-08						INFO
100 nADC	1E-07	9.9961414E-08	71.82 ppm	9.995182E-08	1.000482E-07	-385.864 ppm	410 ppm	PASS 80.08 %
-100 nADC	-1E-07	-1.0006676E-07	71.82 ppm	-1.000482E-07	-9.995182E-08	667.565 ppm	410 ppm	FAIL 138.55 %
-50 nADC	-5E-08	-5.00591E-08						INFO
Zero µADC	0	-3.0637146E-11						INFO
0.5 µADC	5E-07	4.9999115E-07	71.82 ppm	4.999391E-07	5.000609E-07	-17.693 ppm	50 ppm	PASS 14.52 %
1.0 µADC	1E-06	9.9997801E-07	71.82 ppm	9.998782E-07	1.000122E-06	-21.987 ppm	50 ppm	PASS 18.05 %
-1.0 µADC	-1E-06	-1.00006E-06	71.82 ppm	-1.000122E-06	-9.998782E-07	60.046 ppm	50 ppm	PASS 49.29 %
-0.5 µADC	-5E-07	-5.0005179E-07	71.82 ppm	-5.000609E-07	-4.999391E-07	103.571 ppm	50 ppm	PASS 85.02 %
Zero 00 µADC	0	-2.169642E-12						INFO
5 µADC	5E-06	5.0000031E-06	71.82 ppm	4.999556E-06	5.000444E-06	0.628 ppm	17 ppm	PASS 0.71 %
10 µADC	1E-05	9.999973E-06	71.82 ppm	9.999112E-06	1.000089E-05	-0.267 ppm	17 ppm	PASS 0.30 %
-10 µADC	-1E-05	-1.0000037E-05	71.82 ppm	-1.000089E-05	-9.999112E-06	3.703 ppm	17 ppm	PASS 4.17 %
-5 µADC	-5E-06	-5.0000471E-06	71.82 ppm	-5.000444E-06	-4.999556E-06	9.428 ppm	17 ppm	PASS 10.61 %
Zero 000 µADC	0	2.6537504E-11						INFO
50 µADC	5E-05	4.999986E-05	71.82 ppm	4.999561E-05	5.000439E-05	-0.273 ppm	16 ppm	PASS 0.31 %
100 µADC	0.0001	0.00010000011	71.82 ppm	9.999122E-05	0.0001000088	1.093 ppm	16 ppm	PASS 1.25 %
-100 µADC	-0.0001	-0.00010000009	71.82 ppm	-0.0001000088	-9.999122E-05	0.863 ppm	16 ppm	PASS 0.98 %
-50 µADC	-5E-05	-5.0000159E-05	71.82 ppm	-5.000439E-05	-4.999561E-05	3.173 ppm	16 ppm	PASS 3.61 %
Zero mADC	0	-6.427705E-11						INFO
0.5 mADC	0.0005	0.00050000277	33.64 ppm	0.0004999762	0.0005000238	5.543 ppm	14 ppm	PASS 11.63 %
1.0 mADC	0.001	0.0010000046	33.64 ppm	0.0009999524	0.001000048	4.608 ppm	14 ppm	PASS 9.67 %
-1.0 mADC	-0.001	-0.0010000048	33.64 ppm	-0.001000048	-0.0009999524	4.762 ppm	14 ppm	PASS 9.99 %
-0.5 mADC	-0.0005	-0.00050000252	33.64 ppm	-0.0005000238	-0.0004999762	5.040 ppm	14 ppm	PASS 10.58 %
Zero 00 mADC	0	3.3389004E-12						INFO
5 mADC	0.005	0.0049999977	32.27 ppm	0.004999769	0.005000231	-0.460 ppm	14 ppm	PASS 0.99 %
10 mADC	0.01	0.010000009	32.27 ppm	0.009999537	0.01000046	0.938 ppm	14 ppm	PASS 2.03 %
-10 mADC	-0.01	-0.010000035	32.27 ppm	-0.01000046	-0.009999537	3.514 ppm	14 ppm	PASS 7.59 %
-5 mADC	-0.005	-0.0050000244	32.27 ppm	-0.005000231	-0.004999769	4.873 ppm	14 ppm	PASS 10.53 %
Zero 000 mADC	0	3.8664339E-12						INFO
50 mADC	0.05	0.050001029	53.32 ppm	0.04999588	0.05000412	20.586 ppm	29 ppm	PASS 25.01 %
100 mADC	0.1	0.10000307	53.32 ppm	0.09999177	0.1000082	30.676 ppm	29 ppm	PASS 37.26 %
-100 mADC	-0.1	-0.10000368	53.32 ppm	-0.1000082	-0.09999177	36.782 ppm	29 ppm	PASS 44.68 %
-50 mADC	-0.05	-0.050001658	53.32 ppm	-0.05000412	-0.04999588	33.165 ppm	29 ppm	PASS 40.29 %
Zero ADC	0	2.173502E-11						INFO
0.5 ADC	0.5	0.49999608	115.22 ppm	0.4998874	0.5001126	-7.836 ppm	110 ppm	PASS 3.48 %
1.0 ADC	1	0.99997898	115.22 ppm	0.9997748	1.000225	-21.018 ppm	110 ppm	PASS 9.33 %
-1.0 ADC	-1	-0.99998	115.22 ppm	-1.000225	-0.9997748	-19.999 ppm	110 ppm	PASS 8.88 %
-0.5 ADC	-0.5	-0.4999953	115.22 ppm	-0.5001126	-0.4998874	-9.401 ppm	110 ppm	PASS 4.17 %

ACI Test	200µA-2A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result, % spec
10 µA AC @ 50 Hz	1e-05	1.0026618E-05	0.0160 %	9.9893955e-06	1.00106045e-05	2661.846 ppm	0.0900 %	INFO
100 µA AC @ 50 Hz	0.0001	0.00010001722	0.0160 %	9.9893955e-05	0.000100106045	172.222 ppm	0.0900 %	PASS 16.24 %
1.0 mA AC @ 50 Hz	0.001	0.0010000918	0.0160 %	0.00099903955	0.00100096045	91.828 ppm	0.0800 %	PASS 9.56 %
10 mA AC @ 50 Hz	0.01	0.01000092	0.0160 %	0.0099903955	0.0100096045	92.020 ppm	0.0800 %	PASS 9.58 %
100 mA AC @ 50 Hz	0.1	0.10001717	0.0133 %	0.099906682	0.100093318	171.706 ppm	0.0800 %	PASS 18.40 %
1.0 A AC @ 50 Hz	1.0	1.0002507	0.0133 %	0.99886682	1.00113318	0.0251 %	0.1000 %	PASS 22.12 %
10 µA AC @ 60 Hz	1e-05	1.0026463E-05	0.0133 %	9.9896682e-06	1.00103318e-05	2646.268 ppm	0.0900 %	INFO
100 µA AC @ 60 Hz	0.0001	0.0001000175	0.0133 %	9.9896682e-05	0.000100103318	175.044 ppm	0.0900 %	PASS 16.94 %
1.0 mA AC @ 60 Hz	0.001	0.0010001027	0.0129 %	0.00099907136	0.00100092864	102.676 ppm	0.0800 %	PASS 11.06 %
10 mA AC @ 60 Hz	0.01	0.010001151	0.0129 %	0.0099907136	0.0100092864	115.143 ppm	0.0800 %	PASS 12.40 %
100 mA AC @ 60 Hz	0.1	0.10001748	0.0288 %	0.099891182	0.100108818	174.782 ppm	0.0800 %	PASS 16.06 %
1.0 A AC @ 60 Hz	1.0	1.0002649	0.0288 %	0.99871182	1.00128818	0.0265 %	0.1000 %	PASS 20.57 %
10 µA AC @ 1.0 kHz	1e-05	1.0024803E-05	0.0160 %	9.9893955e-06	1.00106045e-05	2480.341 ppm	0.0900 %	INFO
100 µA AC @ 1.0 kHz	0.0001	9.9990375E-05	0.0160 %	9.9893955e-05	0.000100106045	-96.249 ppm	0.0900 %	PASS 9.08 %
1.0 mA AC @ 1.0 kHz	0.001	0.0010001438	0.0160 %	0.00099933955	0.00100066045	143.829 ppm	0.0500 %	PASS 21.78 %
10 mA AC @ 1.0 kHz	0.01	0.010001424	0.0160 %	0.0099933955	0.0100066045	142.445 ppm	0.0500 %	PASS 21.57 %
100 mA AC @ 1.0 kHz	0.1	0.10002202	0.0133 %	0.099936682	0.100063318	220.202 ppm	0.0500 %	PASS 34.78 %
1.0 A AC @ 1.0 kHz	1.0	1.000164	0.0133 %	0.99866682	1.00133318	0.0164 %	0.1200 %	PASS 12.30 %

Test date	14 March 2019 06:59
UUT Internal TEMP?	39.1
Destructive overloads?	89, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated