

Manufacturer	HEWLETT-PACKARD	Calibration date	March 09 2019
Model Number	3458A	Ambient Temperature	24.49 °C
Serial	N/A	Relative Humidity	51.00 %
ID Number	MM3458-3	Pressure	1021.76
Notes	Test front ports	Test type	5720A

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	151.0 days ago	MFC since DCV ZERO	0.0 days ago
MFC since WBFLAT	11389.0 days ago	MFC since WBGAIN	151.0 days ago
MFC Confidence level	<b>24h 95%</b>	MFC Calibrate date	2018-10-09 00:00:00
MFC Calibrate date Zero	2019-03-09 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	6.89136168035
CAL CONST 13V reference voltage	13.7948160154	CAL CONST 22V range positive zero	398.17882
CAL CONST 22V range negative zero	398.1784	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	10000.076726	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	09 March 2019 09:50
DUT Internal TEMP?	36.6	DUT Calibrations number?	62
Self-test result?	0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"
Firmware	9,1	Options	1,0
CAL? 72	0.988089828	CAL? 1,1	40000.5451
CAL? 2,1	7.09585414	CAL? Res 73	0.98747701
CAL 0 TEMP	39.39	CAL 10V TEMP	39.58
CAL 10KOhm TEMP	39.07	CAL? DCI	0.98666661

Service information

CAL DUMP

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Destructive overloads?

59, DESTRUCTIVE OVERLOADS valid 2941

Reference

Direct MFC test, pre-cal verification

DUT Condition

Test of 5700A

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

Source procedure : \$Id: f5700a.py | Rev 1190 | 2019/03/09 14:02:45 MM \$

Main DC Voltage ranges performance test.  
Checks zero offset and +/-FS calibration on all ranges

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

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

Test Description	Expected Value	Measured Value	Measurement Uncertainty	Lower Limit	Upper Limit	Deviation	DUT Spec	Test Status
Short 0 mVDC	0.000000E+00	<b>0.27 µV</b>	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	PASS
Short 0.0 VDC	0.000000E+00	<b>0.29 µV</b>	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	PASS
Short 00.0 VDC	0.000000E+00	<b>-0.07 µV</b>	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	PASS
Short 000.0 VDC	0.000000E+00	<b>7.39 µV</b>	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	PASS
Short 0000.0 VDC	0.000000E+00	<b>-1.76 µV</b>	0.75 µV	-41.750 µV	41.750 µV	N/A	41.00 µV	PASS
DCV Test	0.1V-1000V	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
0.1 VDC (0.10 Range)	0.1000000	<b>0.09999828</b>	7.27 ppm	0.099998723	0.10000128	-1.718 ppm	5.50 ppm	PASS 13.46 %
-0.1 VDC (0.10 Range)	-0.1000000	<b>-0.099999773</b>	7.27 ppm	-0.10000128	-0.099998723	-2.267 ppm	5.50 ppm	PASS 17.75 %
0.1 VDC (1.00 Range)	0.1000000	<b>0.09999915</b>	7.27 ppm	0.099999093	0.10000091	-0.853 ppm	1.80 ppm	PASS 9.40 %
0.2 VDC (1.00 Range)	0.2000000	<b>0.19999999</b>	3.86 ppm	0.19999887	0.20000113	-0.037 ppm	1.80 ppm	PASS 0.65 %
1.0 VDC (1.00 Range)	1.0000000	<b>0.9999981</b>	3.86 ppm	0.99999434	1.0000057	-0.191 ppm	1.80 ppm	PASS 3.37 %
-0.1 VDC (1.00 Range)	-0.1000000	<b>-0.099999775</b>	7.27 ppm	-0.10000091	-0.099999093	-2.247 ppm	1.80 ppm	PASS 24.77 %
-0.2 VDC (1.00 Range)	-0.2000000	<b>-0.19999965</b>	3.86 ppm	-0.20000113	-0.19999887	-1.764 ppm	1.80 ppm	PASS 31.17 %
-1.0 VDC (1.00 Range)	-1.0000000	<b>-0.99999901</b>	3.86 ppm	-1.0000057	-0.99999434	-0.993 ppm	1.80 ppm	PASS 17.55 %
1.0 VDC (10.00 Range)	1.0000000	<b>0.9999997</b>	3.86 ppm	0.99999559	1.0000044	-0.299 ppm	0.55 ppm	PASS 6.78 %
2.0 VDC (10.00 Range)	2.0000000	<b>1.9999985</b>	2.77 ppm	1.9999934	2.0000066	-0.758 ppm	0.55 ppm	PASS 22.83 %
10.0 VDC (10.00 Range)	10.0000000	<b>9.9999945</b>	2.73 ppm	9.9999672	10.000033	-0.545 ppm	0.55 ppm	PASS 16.62 %
-1.0 VDC (10.00 Range)	-1.0000000	<b>-0.99999912</b>	3.86 ppm	-1.0000044	-0.99999559	-0.876 ppm	0.55 ppm	PASS 19.87 %
-2.0 VDC (10.00 Range)	-2.0000000	<b>-1.9999977</b>	2.77 ppm	-2.0000066	-1.9999934	-1.139 ppm	0.55 ppm	PASS 34.31 %
-10.0 VDC (10.00 Range)	-10.0000000	<b>-9.9999947</b>	2.73 ppm	-10.000033	-9.9999672	-0.528 ppm	0.55 ppm	PASS 16.10 %
10 VDC (100.00 Range)	10.0000000	<b>10.000023</b>	2.77 ppm	9.9999443	10.000056	2.265 ppm	2.80 ppm	PASS 40.66 %
20 VDC (100.00 Range)	20.0000000	<b>20.000019</b>	3.73 ppm	19.999869	20.000131	0.971 ppm	2.80 ppm	PASS 14.87 %
100 VDC (100.00 Range)	100.0000000	<b>99.999976</b>	3.73 ppm	99.999347	100.00065	-0.240 ppm	2.80 ppm	PASS 3.67 %
-10 VDC (100.00 Range)	-10.0000000	<b>-9.9999808</b>	2.77 ppm	-10.000056	-9.9999443	-1.924 ppm	2.80 ppm	PASS 34.55 %
-20 VDC (100.00 Range)	-20.0000000	<b>-19.999975</b>	3.73 ppm	-20.000131	-19.999869	-1.269 ppm	2.80 ppm	PASS 19.43 %
-100 VDC (100.00 Range)	-100.0000000	<b>-99.999933</b>	3.73 ppm	-100.00065	-99.999347	-0.668 ppm	2.80 ppm	PASS 10.22 %
100 VDC (1000.00 Range)	100.0000000	<b>99.999974</b>	3.73 ppm	99.999367	100.00063	-0.258 ppm	2.60 ppm	PASS 4.07 %
200 VDC (1000.00 Range)	200.0000000	<b>199.99982</b>	3.73 ppm	199.99873	200.00127	-0.923 ppm	2.60 ppm	PASS 14.58 %
1000 VDC (1000.00 Range)	1000.0000000	<b>1000.0005</b>	5.45 ppm	999.97995	1000.02	0.549 ppm	2.60 ppm	PASS 2.74 %
-100 VDC (1000.00 Range)	-100.0000000	<b>-99.999982</b>	3.73 ppm	-100.00063	-99.999367	-0.179 ppm	2.60 ppm	PASS 2.82 %
-200 VDC (1000.00 Range)	-200.0000000	<b>-199.99978</b>	3.73 ppm	-200.00127	-199.99873	-1.099 ppm	2.60 ppm	PASS 17.36 %
-1000 VDC (1000.00 Range)	-1000.0000000	<b>-1000.0008</b>	5.45 ppm	-1000.02	-999.97995	0.816 ppm	2.60 ppm	PASS 20.67 %

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	<b>0.9997769</b>	27.0 ppm	9.9976671E-01	9.9983669E-01	-24.803 ppm	8.0 ppm	PASS 70.87 %
1.9 Ω	1.8995064	<b>1.8994551</b>	20.0 ppm	1.8994532E+00	1.8995596E+00	-26.986 ppm	8.0 ppm	PASS 96.38 %
10 Ω	9.999933	<b>9.9998628</b>	4.0 ppm	9.9998130E+00	1.0000053E+01	-7.022 ppm	8.0 ppm	PASS 58.52 %
19 Ω	18.999097	<b>18.999029</b>	3.5 ppm	1.8998917E+01	1.8999277E+01	-3.563 ppm	6.0 ppm	PASS 37.50 %
100 Ω	100.00183	<b>100.00174</b>	1.6 ppm	1.0000107E+02	1.0000259E+02	-0.921 ppm	6.0 ppm	PASS 12.12 %
190 Ω	189.99505	<b>189.99486</b>	1.6 ppm	1.8999433E+02	1.8999577E+02	-0.979 ppm	2.2 ppm	PASS 25.76 %
1.0 kΩ	999.9918	<b>999.99015</b>	1.6 ppm	9.9998800E+02	9.9999560E+02	-1.654 ppm	2.2 ppm	PASS 43.51 %
1.9 kΩ	1899.9976	<b>1899.9947</b>	1.6 ppm	1.8999904E+03	1.9000048E+03	-1.549 ppm	2.2 ppm	PASS 40.76 %
10 kΩ	10000.084	<b>10000.066</b>	1.6 ppm	1.0000046E+04	1.0000122E+04	-1.788 ppm	2.2 ppm	PASS 47.07 %
19 kΩ	18999.701	<b>18999.657</b>	1.6 ppm	1.8999629E+04	1.8999773E+04	-2.322 ppm	2.2 ppm	PASS 61.11 %
100 kΩ	100001.4	<b>100000.72</b>	1.6 ppm	1.0000102E+05	1.0000178E+05	-6.760 ppm	2.2 ppm	FAIL 177.89 %
190 kΩ	189992.98	<b>189992.78</b>	1.6 ppm	1.8999059E+05	1.8999537E+05	-1.028 ppm	11.0 ppm	PASS 8.16 %
1.0 MΩ	1000003.1	<b>999997.73</b>	2.0 ppm	9.9999010E+05	1.0000161E+06	-5.367 ppm	11.0 ppm	PASS 41.28 %
1.9 MΩ	1899959.2	<b>1899937.2</b>	2.5 ppm	1.8998500E+06	1.9000684E+06	-11.562 ppm	55.0 ppm	PASS 20.11 %
10 MΩ	9999407	<b>9999082.6</b>	8.0 ppm	9.9987770E+06	1.0000037E+07	-32.445 ppm	55.0 ppm	PASS 51.50 %
19 MΩ	18999096	<b>18999655</b>	16.0 ppm	1.8989102E+07	1.9009090E+07	29.432 ppm	510.0 ppm	PASS 5.60 %
100 MΩ	1.000094E+08	<b>1.0001925E+08</b>	40.0 ppm	9.9954395E+07	1.0006441E+08	98.456 ppm	510.0 ppm	PASS 17.90 %

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 -0.0000026 Ω	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	Range -0.0000762 Ω	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.0000216 Ω	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range 0.0002701 Ω	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.0075642 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.0900799 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 0.0000000 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 0.4324513 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 0.3603761 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 0.2279571 Ω	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	Range 0.2279451 Ω	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.2278294 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range 0.2298509 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.2186403 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.3062720 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 2.0901871 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 2.3424516 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 2.0541498 Ω	5.500e+03 Ω	-5500	5500	N/A	2.2000e-06 Ω	PASS

Procedure for all test points in the AC performance verification for ANAlog mode. AC-measurements does not suffer from TEMF offsets, test connection can be made using shielded leads terminated with dual banana plugs. MFC main AC output is used as reference source

ACV ANA Test	1V-10V	DUT	w/Guardband	Low Limit	Hi limit	Units	Measured	24h spec	Result
1.0 VAC @ 50.0 kHz	1.0	<b>0.99971764</b>	129.09	0.99955091	1.00044909	VAC	-282.362 ppm	320.0 ppm	PASS 62.87 %
1.0 VAC @ 1.0 MHz	1.0	<b>1.0039839</b>	0.2500 %	0.9874	1.0126	VAC	0.3984 %	1.0100 %	PASS 31.62 %
10 VAC @ 40 Hz	10	<b>10.000544</b>	0.0073 %	9.8982682	10.1017318	VAC	0.0054 %	1.0100 %	PASS 0.53 %
10 VAC @ 200 Hz	10	<b>9.9997148</b>	73.18	9.9983682	10.0016318	VAC	-28.521 ppm	90.0 ppm	PASS 17.48 %
10 VAC @ 500 Hz	10	<b>9.9996727</b>	73.18	9.9983682	10.0016318	VAC	-32.732 ppm	90.0 ppm	PASS 20.06 %
10 VAC @ 50.0 kHz	10	<b>9.9952177</b>	129.09	9.9955091	10.0044909	VAC	-478.226 ppm	320.0 ppm	FAIL 106.49 %
10 VAC @ 1.0 MHz	10	<b>10.00902</b>	0.3000 %	9.869	10.131	VAC	0.0902 %	1.0100 %	PASS 6.89 %

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	0.0099994895	0.0312 %	0.009991	0.010009	-0.0051 %	0.0600 %	PASS 5.60 %
0.01 V AC+DC @ 20 Hz	0.0099998635	0.0312 %	0.009991	0.010009	-0.0014 %	0.0600 %	PASS 1.50 %
0.01 V AC+DC @ 40 Hz	0.010000072	0.0312 %	0.009991	0.010009	0.0007 %	0.0600 %	PASS 0.79 %
0.01 V AC+DC @ 100 Hz	0.0099992403	0.0312 %	0.009994	0.010006	-0.0076 %	0.0310 %	PASS 12.21 %
0.01 V AC+DC @ 1.0 kHz	0.0099997787	0.0312 %	0.009994	0.010006	-0.0022 %	0.0310 %	PASS 3.56 %
0.01 V AC+DC @ 10.0 kHz	0.009996503	0.0312 %	0.009993	0.010007	-0.0350 %	0.0410 %	PASS 48.42 %
0.01 V AC+DC @ 20.0 kHz	0.0099923203	0.0312 %	0.009993	0.010007	-0.0768 %	0.0410 %	FAIL 106.33 %
0.01 V AC+DC @ 50.0 kHz	0.0099904027	0.0447 %	0.009984	0.010016	-0.0960 %	0.1110 %	PASS 61.63 %
0.01 V AC+DC @ 100.0 kHz	0.0099448825	0.0773 %	0.009941	0.010059	-0.5512 %	0.5110 %	PASS 93.69 %
0.01 V AC+DC @ 300.0 kHz	0.010670131	0.1500 %	0.009583	0.010417	6.7013 %	4.0200 %	FAIL 160.70 %
0.01 V AC+DC @ 500.0 kHz	0.0093044722	0.2500 %	0.006770	0.013230	-6.9553 %	32.0500 %	PASS 21.53 %
0.01 V AC+DC @ 1.0 MHz	0.0077826403	0.4000 %	0.006755	0.013245	-22.1736 %	32.0500 %	PASS 68.33 %
0.03 V AC+DC @ 10 Hz	0.030008188	0.0121 %	0.029993	0.030007	0.0273 %	0.0110 %	FAIL 117.97 %
0.03 V AC+DC @ 20 Hz	0.030008305	0.0121 %	0.029993	0.030007	0.0277 %	0.0110 %	FAIL 119.65 %
0.03 V AC+DC @ 40 Hz	0.030008604	0.0121 %	0.029993	0.030007	0.0287 %	0.0110 %	FAIL 123.96 %
0.03 V AC+DC @ 100 Hz	0.030007355	0.0121 %	0.029994	0.030006	0.0245 %	0.0090 %	FAIL 116.00 %
0.03 V AC+DC @ 1.0 kHz	0.030006984	0.0121 %	0.029994	0.030006	0.0233 %	0.0090 %	FAIL 110.14 %
0.03 V AC+DC @ 10.0 kHz	0.030006065	0.0121 %	0.029992	0.030008	0.0202 %	0.0160 %	PASS 71.85 %
0.03 V AC+DC @ 20.0 kHz	0.030004783	0.0121 %	0.029992	0.030008	0.0159 %	0.0160 %	PASS 56.67 %
0.03 V AC+DC @ 50.0 kHz	0.030006822	0.0256 %	0.029983	0.030017	0.0227 %	0.0320 %	PASS 39.45 %
0.03 V AC+DC @ 100.0 kHz	0.02999178	0.0591 %	0.029958	0.030042	-0.0274 %	0.0820 %	PASS 19.42 %
0.03 V AC+DC @ 300.0 kHz	0.029983558	0.0964 %	0.029878	0.030122	-0.0548 %	0.3100 %	PASS 13.49 %
0.03 V AC+DC @ 500.0 kHz	0.029942825	0.1500 %	0.029652	0.030348	-0.1906 %	1.0100 %	PASS 16.43 %
0.03 V AC+DC @ 1.0 MHz	0.029946039	0.3000 %	0.029607	0.030393	-0.1799 %	1.0100 %	PASS 13.73 %
0.1 V AC+DC @ 10 Hz	0.099999168	0.0121 %	0.099977	0.100023	-0.0008 %	0.0110 %	PASS 3.59 %
0.1 V AC+DC @ 20 Hz	0.099995902	0.0121 %	0.099977	0.100023	-0.0041 %	0.0110 %	PASS 17.71 %
0.1 V AC+DC @ 40 Hz	0.099995788	0.0121 %	0.099977	0.100023	-0.0042 %	0.0110 %	PASS 18.21 %
0.1 V AC+DC @ 100 Hz	0.099995488	0.0121 %	0.099979	0.100021	-0.0045 %	0.0090 %	PASS 21.35 %
0.1 V AC+DC @ 1.0 kHz	0.099993583	0.0121 %	0.099979	0.100021	-0.0064 %	0.0090 %	PASS 30.36 %
0.1 V AC+DC @ 10.0 kHz	0.099990213	0.0121 %	0.099972	0.100028	-0.0098 %	0.0160 %	PASS 34.78 %
0.1 V AC+DC @ 20.0 kHz	0.099987456	0.0121 %	0.099972	0.100028	-0.0125 %	0.0160 %	PASS 44.59 %
0.1 V AC+DC @ 50.0 kHz	0.099995911	0.0256 %	0.099942	0.100058	-0.0041 %	0.0320 %	PASS 7.09 %
0.1 V AC+DC @ 100.0 kHz	0.099954772	0.0591 %	0.099859	0.100141	-0.0452 %	0.0820 %	PASS 32.06 %
0.1 V AC+DC @ 300.0 kHz	0.099888542	0.0964 %	0.099594	0.100406	-0.9115 %	0.3100 %	FAIL 224.30 %
0.1 V AC+DC @ 500.0 kHz	0.09979075	0.1500 %	0.098840	0.101160	-0.2093 %	1.0100 %	PASS 18.04 %
0.1 V AC+DC @ 1.0 MHz	0.099804706	0.3000 %	0.098690	0.101310	-0.1953 %	1.0100 %	PASS 14.91 %
0.3 V AC+DC @ 10 Hz	0.30000634	0.0050 %	0.299952	0.300048	0.0021 %	0.0110 %	PASS 13.25 %
0.3 V AC+DC @ 20 Hz	0.30000095	0.0050 %	0.299952	0.300048	0.0003 %	0.0110 %	PASS 1.99 %
0.3 V AC+DC @ 40 Hz	0.29999854	0.0050 %	0.299952	0.300048	-0.0005 %	0.0110 %	PASS 3.05 %
0.3 V AC+DC @ 100 Hz	0.29999739	0.0050 %	0.299958	0.300042	-0.0009 %	0.0090 %	PASS 6.24 %
0.3 V AC+DC @ 1.0 kHz	0.29999601	0.0050 %	0.299958	0.300042	-0.0013 %	0.0090 %	PASS 9.53 %
0.3 V AC+DC @ 10.0 kHz	0.30000968	0.0050 %	0.299937	0.300063	0.0032 %	0.0160 %	PASS 15.39 %
0.3 V AC+DC @ 20.0 kHz	0.30000984	0.0050 %	0.299937	0.300063	0.0033 %	0.0160 %	PASS 15.66 %
0.3 V AC+DC @ 50.0 kHz	0.30005009	0.0085 %	0.299878	0.300122	0.0167 %	0.0320 %	PASS 41.18 %
0.3 V AC+DC @ 100.0 kHz	0.30012316	0.0138 %	0.299713	0.300287	0.0411 %	0.0820 %	PASS 42.85 %
0.3 V AC+DC @ 300.0 kHz	0.30050002	0.0425 %	0.298942	0.301058	0.1667 %	0.3100 %	PASS 47.28 %
0.3 V AC+DC @ 500.0 kHz	0.3010086	0.1100 %	0.296640	0.303360	0.3362 %	1.0100 %	PASS 30.02 %
0.3 V AC+DC @ 1.0 MHz	0.3021939	0.1800 %	0.296430	0.303570	0.7313 %	1.0100 %	PASS 61.45 %
1.0 V AC+DC @ 10 Hz	1.0000204	0.0050 %	0.999840	1.000160	0.0020 %	0.0110 %	PASS 12.80 %
1.0 V AC+DC @ 20 Hz	0.99999427	0.0050 %	0.999840	1.000160	-0.0006 %	0.0110 %	PASS 3.59 %
1.0 V AC+DC @ 40 Hz	0.99998835	0.0050 %	0.999840	1.000160	-0.0012 %	0.0110 %	PASS 7.30 %
1.0 V AC+DC @ 100 Hz	0.99998513	0.0050 %	0.999860	1.000140	-0.0015 %	0.0090 %	PASS 10.66 %
1.0 V AC+DC @ 1.0 kHz	0.99997848	0.0050 %	0.999860	1.000140	-0.0022 %	0.0090 %	PASS 15.42 %
1.0 V AC+DC @ 10.0 kHz	1.0000065	0.0050 %	0.999790	1.000210	0.0007 %	0.0160 %	PASS 3.10 %
1.0 V AC+DC @ 20.0 kHz	1.0000322	0.0050 %	0.999790	1.000210	0.0032 %	0.0160 %	PASS 15.34 %
1.0 V AC+DC @ 50.0 kHz	1.000147	0.0085 %	0.999595	1.000405	0.0147 %	0.0320 %	PASS 36.25 %
1.0 V AC+DC @ 100.0 kHz	1.0003485	0.0138 %	0.999042	1.000958	0.0349 %	0.0820 %	PASS 36.38 %
1.0 V AC+DC @ 300.0 kHz	1.0016744	0.0425 %	0.996475	1.003525	0.1674 %	0.3100 %	PASS 47.50 %
1.0 V AC+DC @ 500.0 kHz	1.0033568	0.1100 %	0.988800	1.011200	0.3357 %	1.0100 %	PASS 29.97 %
1.0 V AC+DC @ 1.0 MHz	1.0084387	0.1800 %	0.988100	1.011900	0.8439 %	1.0100 %	PASS 70.91 %
3.0 V AC+DC @ 10 Hz	3.000107	0.0048 %	2.999525	3.000475	0.0036 %	0.0110 %	PASS 22.55 %
3.0 V AC+DC @ 20 Hz	3.0000323	0.0048 %	2.999525	3.000475	0.0011 %	0.0110 %	PASS 6.81 %
3.0 V AC+DC @ 40 Hz	3.0000048	0.0048 %	2.999525	3.000475	0.0002 %	0.0110 %	PASS 1.00 %
3.0 V AC+DC @ 100 Hz	2.9999968	0.0048 %	2.999585	3.000415	-0.0001 %	0.0090 %	PASS 0.76 %

3.0 V AC+DC @ 1.0 kHz	2.9999545	0.0048 %	2.999585	3.000415	-0.0015 %	0.0090 %	PASS 10.99 %
3.0 V AC+DC @ 10.0 kHz	2.9999175	0.0048 %	2.999375	3.000625	-0.0028 %	0.0160 %	PASS 13.21 %
3.0 V AC+DC @ 20.0 kHz	2.9999512	0.0048 %	2.999375	3.000625	-0.0016 %	0.0160 %	PASS 7.82 %
3.0 V AC+DC @ 50.0 kHz	2.99976	0.0085 %	2.998784	3.001216	-0.0080 %	0.0320 %	PASS 19.73 %
3.0 V AC+DC @ 100.0 kHz	2.9989948	0.0121 %	2.997176	3.002824	-0.0335 %	0.0820 %	PASS 35.59 %
3.0 V AC+DC @ 300.0 kHz	2.993558	0.0336 %	2.989691	3.010309	-0.2147 %	0.3100 %	PASS 62.49 %
3.0 V AC+DC @ 500.0 kHz	2.9948123	0.1100 %	2.966400	3.033600	-0.1729 %	1.0100 %	PASS 15.44 %
3.0 V AC+DC @ 1.0 MHz	3.0132708	0.1700 %	2.964600	3.035400	0.4424 %	1.0100 %	PASS 37.49 %
10.0 V AC+DC @ 10 Hz	10.000259	0.0048 %	9.998418	10.001582	0.0026 %	0.0110 %	PASS 16.35 %
10.0 V AC+DC @ 20 Hz	9.9999907	0.0048 %	9.998418	10.001582	-0.0001 %	0.0110 %	PASS 0.59 %
10.0 V AC+DC @ 40 Hz	9.9999373	0.0048 %	9.998418	10.001582	-0.0006 %	0.0110 %	PASS 3.96 %
10.0 V AC+DC @ 100 Hz	9.9998993	0.0048 %	9.998618	10.001382	-0.0010 %	0.0090 %	PASS 7.29 %
10.0 V AC+DC @ 1.0 kHz	9.9997711	0.0048 %	9.998618	10.001382	-0.0023 %	0.0090 %	PASS 16.56 %
10.0 V AC+DC @ 10.0 kHz	9.9995675	0.0048 %	9.997918	10.002082	-0.0043 %	0.0160 %	PASS 20.77 %
10.0 V AC+DC @ 20.0 kHz	9.9996463	0.0048 %	9.997918	10.002082	-0.0035 %	0.0160 %	PASS 16.99 %
10.0 V AC+DC @ 50.0 kHz	9.9988787	0.0085 %	9.995945	10.004054	-0.0112 %	0.0320 %	PASS 27.66 %
10.0 V AC+DC @ 100.0 kHz	9.9959431	0.0121 %	9.990586	10.009414	-0.0406 %	0.0820 %	PASS 43.10 %
10.0 V AC+DC @ 300.0 kHz	9.9785533	0.0336 %	9.965636	10.034364	-0.2145 %	0.3100 %	PASS 62.41 %
10.0 V AC+DC @ 500.0 kHz	9.9824712	0.1100 %	9.888000	10.112000	-0.1753 %	1.0100 %	PASS 15.65 %
10.0 V AC+DC @ 1.0 MHz	10.05719	0.1700 %	9.882000	10.118000	0.5719 %	1.0100 %	PASS 48.47 %
30 V AC+DC @ 10 Hz	29.99991	0.0060 %	29.990995	30.009005	-0.0003 %	0.0240 %	PASS 1.00 %
30 V AC+DC @ 20 Hz	29.999085	0.0060 %	29.990995	30.009005	-0.0031 %	0.0240 %	PASS 10.16 %
30 V AC+DC @ 40 Hz	29.998915	0.0060 %	29.990995	30.009005	-0.0036 %	0.0240 %	PASS 12.05 %
30 V AC+DC @ 100 Hz	29.998853	0.0060 %	29.991595	30.008405	-0.0038 %	0.0220 %	PASS 13.65 %
30 V AC+DC @ 1.0 kHz	29.998505	0.0060 %	29.991595	30.008405	-0.0050 %	0.0220 %	PASS 17.78 %
30 V AC+DC @ 10.0 kHz	29.997301	0.0060 %	29.991595	30.008405	-0.0090 %	0.0220 %	PASS 32.12 %
30 V AC+DC @ 20.0 kHz	29.995666	0.0060 %	29.991595	30.008405	-0.0144 %	0.0220 %	PASS 51.56 %
30 V AC+DC @ 50.0 kHz	29.987658	0.0060 %	29.987095	30.012905	-0.0411 %	0.0370 %	PASS 95.63 %
30 V AC+DC @ 100.0 kHz	29.984243	0.0174 %	29.958191	30.041809	-0.0525 %	0.1220 %	PASS 37.69 %
30 V AC+DC @ 300.0 kHz	29.993452	0.0991 %	29.847273	30.152727	-0.0218 %	0.4100 %	PASS 4.29 %
30 V AC+DC @ 500.0 kHz	30.113862	0.5200 %	29.391000	30.609000	0.3795 %	1.5100 %	PASS 18.70 %
100.0 V AC+DC @ 10 Hz	99.999283	0.0060 %	99.969982	100.030018	-0.0007 %	0.0240 %	PASS 2.39 %
100.0 V AC+DC @ 20 Hz	99.996683	0.0060 %	99.969982	100.030018	-0.0033 %	0.0240 %	PASS 11.05 %
100.0 V AC+DC @ 40 Hz	99.996114	0.0060 %	99.969982	100.030018	-0.0039 %	0.0240 %	PASS 12.94 %
100.0 V AC+DC @ 100 Hz	99.995612	0.0060 %	99.971982	100.028018	-0.0044 %	0.0220 %	PASS 15.66 %
100.0 V AC+DC @ 1.0 kHz	99.994399	0.0060 %	99.971982	100.028018	-0.0056 %	0.0220 %	PASS 19.99 %
100.0 V AC+DC @ 10.0 kHz	99.990766	0.0060 %	99.971982	100.028018	-0.0092 %	0.0220 %	PASS 32.96 %
100.0 V AC+DC @ 20.0 kHz	99.984765	0.0060 %	99.971982	100.028018	-0.0152 %	0.0220 %	PASS 54.38 %
100.0 V AC+DC @ 50.0 kHz	99.957122	0.0095 %	99.953455	100.046545	-0.0429 %	0.0370 %	PASS 92.12 %
100.0 V AC+DC @ 100.0 kHz	99.942893	0.0174 %	99.860636	100.139364	-0.0571 %	0.1220 %	PASS 40.98 %
300.0 V AC+DC @ 100 Hz	299.97239	0.0079 %	299.850408	300.149592	-0.0092 %	0.0420 %	PASS 18.32 %
300.0 V AC+DC @ 1.0 kHz	299.97104	0.0079 %	299.850408	300.149592	-0.0097 %	0.0420 %	PASS 19.22 %
750.0 V AC+DC @ 100 Hz	749.84147	0.0245 %	749.501498	750.498502	-0.0211 %	0.0420 %	PASS 31.38 %
750.0 V AC+DC @ 1.0 kHz	749.83199	0.0660 %	749.190000	750.810000	-0.0224 %	0.0420 %	PASS 20.57 %



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 $\mu$ ADC	0	<b>-8.2691505E-12</b>						INFO
50 nADC	5E-08	<b>5.0014534E-08</b>						INFO
100 nADC	1E-07	<b>9.9985339E-08</b>	71.82 ppm	9.995182E-08	1.000482E-07	-146.610 ppm	410 ppm	PASS 30.43 %
-100 nADC	-1E-07	<b>-9.9993718E-08</b>	71.82 ppm	-1.000482E-07	-9.995182E-08	-62.820 ppm	410 ppm	PASS 13.04 %
-50 nADC	-5E-08	<b>-4.9991671E-08</b>						INFO
Zero $\mu$ ADC	0	<b>3.7897183E-11</b>						INFO
0.5 $\mu$ ADC	5E-07	<b>5.0001681E-07</b>	71.82 ppm	4.999391E-07	5.000609E-07	33.615 ppm	50 ppm	PASS 27.59 %
1.0 $\mu$ ADC	1E-06	<b>1.0000081E-06</b>	71.82 ppm	9.998782E-07	1.000122E-06	8.083 ppm	50 ppm	PASS 6.64 %
-1.0 $\mu$ ADC	-1E-06	<b>-9.996599E-07</b>	71.82 ppm	-1.000122E-06	-9.998782E-07	-34.007 ppm	50 ppm	PASS 27.92 %
-0.5 $\mu$ ADC	-5E-07	<b>-4.9998454E-07</b>	71.82 ppm	-5.000609E-07	-4.999391E-07	-30.924 ppm	50 ppm	PASS 25.38 %
Zero 00 $\mu$ ADC	0	<b>6.5553453E-12</b>						INFO
5 $\mu$ ADC	5E-06	<b>4.9999911E-06</b>	71.82 ppm	4.999556E-06	5.000444E-06	-1.773 ppm	17 ppm	PASS 2.00 %
10 $\mu$ ADC	1E-05	<b>9.999659E-06</b>	71.82 ppm	9.999112E-06	1.000089E-05	-3.412 ppm	17 ppm	PASS 3.84 %
-10 $\mu$ ADC	-1E-05	<b>-9.999517E-06</b>	71.82 ppm	-1.000089E-05	-9.999112E-06	-4.829 ppm	17 ppm	PASS 5.44 %
-5 $\mu$ ADC	-5E-06	<b>-4.999948E-06</b>	71.82 ppm	-5.000444E-06	-4.999556E-06	-10.403 ppm	17 ppm	PASS 11.71 %
Zero 000 $\mu$ ADC	0	<b>2.789488E-11</b>						INFO
50 $\mu$ ADC	5E-05	<b>4.9999931E-05</b>	71.82 ppm	4.999561E-05	5.000439E-05	-1.383 ppm	16 ppm	PASS 1.57 %
100 $\mu$ ADC	0.0001	<b>9.9999716E-05</b>	71.82 ppm	9.999122E-05	0.0001000088	-2.837 ppm	16 ppm	PASS 3.23 %
-100 $\mu$ ADC	-0.0001	<b>-9.9999369E-05</b>	71.82 ppm	-0.0001000088	-9.999122E-05	-6.305 ppm	16 ppm	PASS 7.18 %
-50 $\mu$ ADC	-5E-05	<b>-4.99996E-05</b>	71.82 ppm	-5.000439E-05	-4.999561E-05	-7.991 ppm	16 ppm	PASS 9.10 %
Zero mADC	0	<b>6.6309591E-11</b>						INFO
0.5 mADC	0.0005	<b>0.00050000004</b>	33.64 ppm	0.0004999762	0.0005000238	0.075 ppm	14 ppm	PASS 0.16 %
1.0 mADC	0.001	<b>0.00099999846</b>	33.64 ppm	0.0009999524	0.001000048	-1.539 ppm	14 ppm	PASS 3.23 %
-1.0 mADC	-0.001	<b>-0.00099999642</b>	33.64 ppm	-0.001000048	-0.0009999524	-3.584 ppm	14 ppm	PASS 7.52 %
-0.5 mADC	-0.0005	<b>-0.00049999756</b>	33.64 ppm	-0.0005000238	-0.0004999762	-4.887 ppm	14 ppm	PASS 10.26 %
Zero 00 mADC	0	<b>5.8957801E-11</b>						INFO
5 mADC	0.005	<b>0.0050000076</b>	32.27 ppm	0.004999769	0.005000231	1.528 ppm	14 ppm	PASS 3.30 %
10 mADC	0.01	<b>0.010000025</b>	32.27 ppm	0.009999537	0.01000046	2.475 ppm	14 ppm	PASS 5.35 %
-10 mADC	-0.01	<b>-0.010000024</b>	32.27 ppm	-0.01000046	-0.009999537	2.426 ppm	14 ppm	PASS 5.24 %
-5 mADC	-0.005	<b>-0.0050000102</b>	32.27 ppm	-0.005000231	-0.004999769	2.040 ppm	14 ppm	PASS 4.41 %
Zero 000 mADC	0	<b>1.0390206E-10</b>						INFO
50 mADC	0.05	<b>0.050000699</b>	53.32 ppm	0.04999588	0.05000412	13.983 ppm	29 ppm	PASS 16.99 %
100 mADC	0.1	<b>0.10000232</b>	53.32 ppm	0.09999177	0.1000082	23.176 ppm	29 ppm	PASS 28.15 %
-100 mADC	-0.1	<b>-0.100003</b>	53.32 ppm	-0.1000082	-0.09999177	29.999 ppm	29 ppm	PASS 36.44 %
-50 mADC	-0.05	<b>-0.050001274</b>	53.32 ppm	-0.05000412	-0.04999588	25.474 ppm	29 ppm	PASS 30.95 %
Zero ADC	0	<b>1.1278547E-10</b>						INFO
0.5 ADC	0.5	<b>0.50002695</b>	115.22 ppm	0.4998874	0.5001126	53.905 ppm	110 ppm	PASS 23.93 %
1.0 ADC	1	<b>1.0000485</b>	115.22 ppm	0.9997748	1.000225	48.514 ppm	110 ppm	PASS 21.54 %
-1.0 ADC	-1	<b>-1.0000472</b>	115.22 ppm	-1.000225	-0.9997748	47.198 ppm	110 ppm	PASS 20.96 %
-0.5 ADC	-0.5	<b>-0.50002766</b>	115.22 ppm	-0.5001126	-0.4998874	55.327 ppm	110 ppm	PASS 24.57 %

Procedure for all test points that verify Gain of the AC Current ACI function. Three frequency band points are tested, 50 Hz, 60 Hz and 1 kHz. 2-wire connection at LO and DCI is used between DMM and MFC.

ACI Test	200µA-2A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result, % spec
10 µA AC @ 50 Hz	1e-05	<b>1.004052E-05</b>	0.0160 %	9.9893955e-06	1.00106045e-05	4052.010 ppm	0.0900 %	INFO
100 µA AC @ 50 Hz	0.0001	<b>0.00010001697</b>	0.0160 %	9.9893955e-05	0.000100106045	169.659 ppm	0.0900 %	PASS 16.00 %
1.0 mA AC @ 50 Hz	0.001	<b>0.00099996889</b>	0.0160 %	0.00099903955	0.00100096045	-31.112 ppm	0.0800 %	PASS 3.24 %
10 mA AC @ 50 Hz	0.01	<b>0.0099996466</b>	0.0160 %	0.0099903955	0.0100096045	-35.342 ppm	0.0800 %	PASS 3.68 %
100 mA AC @ 50 Hz	0.1	<b>0.10000037</b>	0.0133 %	0.099906682	0.100093318	3.674 ppm	0.0800 %	PASS 0.39 %
1.0 A AC @ 50 Hz	1.0	<b>1.0002511</b>	0.0133 %	0.99886682	1.00113318	0.0251 %	0.1000 %	PASS 22.16 %
10 µA AC @ 60 Hz	1e-05	<b>1.0039604E-05</b>	0.0133 %	9.9896682e-06	1.00103318e-05	3960.358 ppm	0.0900 %	INFO
100 µA AC @ 60 Hz	0.0001	<b>0.00010000991</b>	0.0133 %	9.9896682e-05	0.000100103318	99.070 ppm	0.0900 %	PASS 9.59 %
1.0 mA AC @ 60 Hz	0.001	<b>0.0010000136</b>	0.0129 %	0.00099907136	0.00100092864	13.618 ppm	0.0800 %	PASS 1.47 %
10 mA AC @ 60 Hz	0.01	<b>0.0099998862</b>	0.0129 %	0.0099907136	0.0100092864	-11.379 ppm	0.0800 %	PASS 1.23 %
100 mA AC @ 60 Hz	0.1	<b>0.10000241</b>	0.0288 %	0.099891182	0.100108818	24.125 ppm	0.0800 %	PASS 2.22 %
1.0 A AC @ 60 Hz	1.0	<b>1.0002606</b>	0.0288 %	0.99871182	1.00128818	0.0261 %	0.1000 %	PASS 20.23 %
10 µA AC @ 1.0 kHz	1e-05	<b>1.0037254E-05</b>	0.0160 %	9.9893955e-06	1.00106045e-05	3725.432 ppm	0.0900 %	INFO
100 µA AC @ 1.0 kHz	0.0001	<b>9.9981723E-05</b>	0.0160 %	9.9893955e-05	0.000100106045	-182.775 ppm	0.0900 %	PASS 17.24 %
1.0 mA AC @ 1.0 kHz	0.001	<b>0.0010000208</b>	0.0160 %	0.00099933955	0.00100066045	20.788 ppm	0.0500 %	PASS 3.15 %
10 mA AC @ 1.0 kHz	0.01	<b>0.010000235</b>	0.0160 %	0.0099933955	0.0100066045	23.533 ppm	0.0500 %	PASS 3.56 %
100 mA AC @ 1.0 kHz	0.1	<b>0.099990642</b>	0.0133 %	0.099936682	0.100063318	-93.578 ppm	0.0500 %	PASS 14.78 %
1.0 A AC @ 1.0 kHz	1.0	<b>1.0002185</b>	0.0133 %	0.99866682	1.00133318	0.0218 %	0.1200 %	PASS 16.39 %

Test date	09 March 2019 23:14
UUT Internal TEMP?	37.5
Destructive overloads?	65, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated