

Manufacturer	HEWLETT-PACKARD	Calibration date	April 16 2020
Model Number	3458A	Ambient Temperature	22.33 °C
Serial	STD3	Relative Humidity	30.93 %
ID Number	Calibration test, GPIB3 unit	Pressure	1007.40
Notes	Test front spade cables	Test type	Front Fluke terminals banana PTFE-AWG16

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

Reference standard	Mfg	Model	Options	Serial / Unc	CEID	Calibration date	Due date
DC STD	xDevs.com	792X[2]	9.9999751 VDC	±0.5 ppm	XD01	03/03/2020	03/03/2021
DC STD	Fluke	732Bx	10.0000328	±0.7 ppm	6480002	03/26/2020	06/26/2020
STDR	ESI	SR104	10000.0026 KΩ	±0.15 ppm	G202088930104	03/17/2020	03/17/2021
STDR	xDevs.com/Fluke	SL935	1.00006085 Ω	±0.17 ppm	XR03	09/13/2019	09/13/2020
STDR	xDevs.com/Fluke	SL935	9999.9737 kΩ	±0.17 ppm	XR02	09/13/2019	09/13/2020
MFC	Fluke	5720A	03/HLK	E2E6	XC01	03/28/2020	03/28/2021
Amplifier	Fluke	5725A		5930005	XB01	03/28/2020	03/28/2021
DMM	HP	3458A	001,X02	MY45040325	XD2	06/16/2019	12/16/2019
DMM	HP	3458A	001,X02	X	XD3	03/28/2020	03/28/2021
AVMS	Wavetek	4920M	80	29336	XA02	07/11/2017	07/11/2018
DC STD	Wavetek	7000	54222	±2.2 ppm	XD01	02/16/2018	02/16/2019
Divider	Fluke	752A	4295200		XR01	02/16/2018	02/16/2019

MFC last calibrated	3.0 days ago	MFC since DCV ZERO	0.0 days ago
MFC since WBFLAT	18.0 days ago	MFC since WBGAIN	18.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2020-04-13 00:00:00
MFC Calibrate date Zero	2020-04-16 00:00:00	Calibrate date WB Flatness	2020-03-29 00:00:00
Calibrate date WB Gain	2020-03-29 00:00:00	CAL CONST 6.5V reference voltage	6.95748103013
CAL CONST 13V reference voltage	13.855305491	CAL CONST 22V range positive zero	398.17937
CAL CONST 22V range negative zero	398.17896	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	9999.80482503	CAL CONST 10KOHM standard resistance	9998.75116377

CAL CONST, Zero calibration temperature	23.5	CAL CONST, All calibration temp	23.5
Booster type	VB5725,IB5725	Current output posts	AUX
Calibrate date 5725A AMP	2020-04-13 00:00:00	Calibrated days ago	Debug
CAL CONST, Amp ACAL temperature	23.5	CAL CONST, Amp CalCheck temperature	23.5

Total uncertainty of each calibration point calculated with RSS

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

Meter Info	HP3458A	Last calibration date	7/24/2018
CALSTR?	"3/29/2020, TEMP=35.1, xDevs"	Test date	16 April 2020 06:24
DUT Internal TEMP?	33.5	DUT Calibrations number?	188
Self-test result?	0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"
Firmware	9,2	Options	1,0
CAL? 72	0.997704177	CAL? 1,1	39998.8701
CAL? 2,1	7.180706	CAL? Res 73	0.997503329
CAL 0 TEMP	35.24	CAL 10V TEMP	35.49
CAL 10KOhm TEMP	38.80	CAL? DCI	0.997865007

Service information

CAL DUMP

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Destructive overloads?

130, DESTRUCTIVE OVERLOADS valid 2941

Reference

Verification

DUT Condition

xfer-calkit

Test procedure : \$Id: hp3458a.py | Rev 1500 | 2019/07/24 08:56:31 tin_fpga \$

Source procedure : \$Id: f5720b.py | Rev 1697 | 2020/04/04 04:09:52 tin_fpga \$

Main DC Voltage ranges performance test.

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

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

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

Test Description	Expected Value	Measured Value	Measurement Uncertainty	Lower Limit	Upper Limit	Deviation	DUT Spec	Test Status
Short 0 mVDC	0.000000E+00	0.99 µV	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	FAIL
Short 0.0 VDC	0.000000E+00	1.03 µV	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	FAIL
Short 00.0 VDC	0.000000E+00	1.28 µV	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	FAIL
Short 000.0 VDC	0.000000E+00	36.27 µV	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	FAIL
Short 0000.0 VDC	0.000000E+00	72.92 µV	0.75 µV	-41.750 µV	41.750 µV	N/A	41.00 µV	FAIL
DCV Test	0.1V-1000V	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
0.019 VDC (0.10 Range)	0.0190000	0.019000048	7.27 ppm	0.018999514	0.019000486	2.505 ppm	18.29 ppm	PASS 6.36 %
0.1 VDC (0.10 Range)	0.1000000	0.10000007	7.27 ppm	0.099998723	0.10000128	0.732 ppm	5.50 ppm	PASS 4.01 %
0.11 VDC (0.10 Range)	0.1100000	0.11000006	7.27 ppm	0.10999863	0.11000137	0.567 ppm	5.23 ppm	PASS 3.17 %
-0.019 VDC (0.10 Range)	-0.0190000	-0.018999997	7.27 ppm	-0.019000486	-0.018999514	-0.175 ppm	18.29 ppm	PASS 0.45 %
-0.1 VDC (0.10 Range)	-0.1000000	-0.10000002	7.27 ppm	-0.10000128	-0.099998723	0.218 ppm	5.50 ppm	PASS 1.19 %
-0.11 VDC (0.10 Range)	-0.1100000	-0.11000005	7.27 ppm	-0.11000137	-0.10999863	0.466 ppm	5.23 ppm	PASS 2.60 %
0.19 VDC (1.00 Range)	0.1900000	0.19	7.27 ppm	0.18999803	0.19000197	0.008 ppm	3.08 ppm	PASS 0.05 %
1.0 VDC (1.00 Range)	1.0000000	0.99999862	3.86 ppm	0.99999434	1.0000057	-1.379 ppm	1.80 ppm	PASS 16.19 %
1.1 VDC (1.00 Range)	1.1000000	1.0999986	3.86 ppm	1.0999938	1.1000062	-1.288 ppm	1.77 ppm	PASS 15.16 %
-0.19 VDC (1.00 Range)	-0.1900000	-0.19000019	7.27 ppm	-0.19000197	-0.18999803	1.007 ppm	3.08 ppm	PASS 6.37 %
-1.0 VDC (1.00 Range)	-1.0000000	-0.99999955	3.86 ppm	-1.0000057	-0.99999434	-0.446 ppm	1.80 ppm	PASS 5.23 %
-1.1 VDC (1.00 Range)	-1.1000000	-1.0999993	3.86 ppm	-1.1000062	-1.0999938	-0.638 ppm	1.77 ppm	PASS 7.51 %
1.9 VDC (10.00 Range)	1.9000000	1.8999991	3.86 ppm	1.8999912	1.9000088	-0.493 ppm	0.76 ppm	PASS 6.27 %
10.0 VDC (10.00 Range)	10.0000000	9.999998	2.77 ppm	9.9999668	10.000033	-0.205 ppm	0.55 ppm	PASS 3.62 %
11.0 VDC (10.00 Range)	11.0000000	10.999998	2.73 ppm	10.999964	11.000036	-0.221 ppm	0.55 ppm	PASS 3.97 %
-1.9 VDC (10.00 Range)	-1.9000000	-1.9	3.86 ppm	-1.9000088	-1.8999912	-0.003 ppm	0.76 ppm	PASS 0.03 %
-10.0 VDC (10.00 Range)	-10.0000000	-9.9999983	2.77 ppm	-10.000033	-9.9999668	-0.168 ppm	0.55 ppm	PASS 2.98 %
-11.0 VDC (10.00 Range)	-11.0000000	-10.999999	2.73 ppm	-11.000036	-10.999964	-0.064 ppm	0.55 ppm	PASS 1.14 %
19 VDC (100.00 Range)	19.0000000	19.000084	2.77 ppm	18.99987	19.00013	4.421 ppm	4.08 ppm	PASS 44.83 %
100 VDC (100.00 Range)	100.0000000	100.00004	3.73 ppm	99.999347	100.00065	0.369 ppm	2.80 ppm	PASS 3.95 %
110 VDC (100.00 Range)	110.0000000	110.00002	3.73 ppm	109.99928	110.00072	0.141 ppm	2.77 ppm	PASS 1.52 %
-19 VDC (100.00 Range)	-19.0000000	-18.999921	2.77 ppm	-19.00013	-18.99987	-4.142 ppm	4.08 ppm	PASS 42.00 %
-100 VDC (100.00 Range)	-100.0000000	-99.999894	3.73 ppm	-100.00065	-99.999347	-1.057 ppm	2.80 ppm	PASS 11.33 %
-110 VDC (100.00 Range)	-110.0000000	-109.99988	3.73 ppm	-110.00072	-109.99928	-1.096 ppm	2.77 ppm	PASS 11.79 %
190 VDC (1000.00 Range)	190.0000000	190.00006	3.73 ppm	189.99872	190.00128	0.326 ppm	3.03 ppm	PASS 3.40 %
500 VDC (1000.00 Range)	500.0000000	500.0012	3.73 ppm	499.99678	500.00322	2.402 ppm	2.70 ppm	PASS 32.20 %
1000 VDC (1000.00 Range)	1000.0000000	1000.002	5.45 ppm	999.97995	1000.02	1.998 ppm	2.60 ppm	PASS 7.58 %
-190 VDC (1000.00 Range)	-190.0000000	-190	3.73 ppm	-190.00128	-189.99872	0.013 ppm	3.03 ppm	PASS 0.13 %
-500 VDC (1000.00 Range)	-500.0000000	-500.00109	3.73 ppm	-500.00322	-499.99678	2.177 ppm	2.70 ppm	PASS 8.66 %
-1000 VDC (1000.00 Range)	-1000.0000000	-1000.0021	5.45 ppm	-1000.02	-999.97995	2.113 ppm	2.60 ppm	PASS 8.02 %

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

OHM Test	Reference	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1 Ω	0.999791 Ω	0.99977236 Ω	32.0 ppm	9.9972401E-01	9.9985799E-01	-18.647 ppm	35.01 ppm	PASS, 19.66 % of 94.86 ppm
1.9 Ω	1.8998378 Ω	1.8998007 Ω	25.0 ppm	1.8997508E+00	1.8999248E+00	-19.509 ppm	20.79 ppm	PASS, 30.00 % of 65.03 ppm
10 Ω	10.000581 Ω	10.000573 Ω	5.0 ppm	1.0000451E+01	1.0000711E+01	-0.751 ppm	8.00 ppm	PASS, 3.98 % of 18.87 ppm
19 Ω	19.00024 Ω	19.00028 Ω	4.0 ppm	1.8999807E+01	1.9000673E+01	2.128 ppm	18.79 ppm	PASS, 5.54 % of 38.42 ppm
100 Ω	99.9966 Ω	99.996764 Ω	1.7 ppm	9.9995830E+01	9.9997370E+01	1.638 ppm	6.00 ppm	PASS, 13.14 % of 12.47 ppm
190 Ω	189.99379 Ω	189.9942 Ω	1.7 ppm	1.8999289E+02	1.8999469E+02	2.176 ppm	3.05 ppm	PASS, 31.14 % of 6.99 ppm
1.0 kΩ	1000.0256 kΩ	1000.0255 kΩ	1.7 ppm	1.0000217E+03	1.0000295E+03	-0.059 ppm	2.20 ppm	PASS, 1.06 % of 5.56 ppm
1.9 kΩ	1899.9011 kΩ	1899.9035 kΩ	1.7 ppm	1.8998921E+03	1.8999101E+03	1.266 ppm	3.05 ppm	PASS, 18.11 % of 6.99 ppm
10 kΩ	9999.8 kΩ	9999.8016 kΩ	1.6 ppm	9.9997620E+03	9.9998380E+03	0.157 ppm	2.20 ppm	PASS, 2.89 % of 5.44 ppm
19 kΩ	18999.283 kΩ	18999.303 kΩ	1.7 ppm	1.8999193E+04	1.8999373E+04	1.057 ppm	3.05 ppm	PASS, 15.13 % of 6.99 ppm
100 kΩ	99994.81 kΩ	99994.585 kΩ	2.0 ppm	9.9994390E+04	9.9995230E+04	-2.254 ppm	2.20 ppm	PASS, 37.91 % of 5.95 ppm
190 kΩ	189989.23 kΩ	189989.25 kΩ	2.0 ppm	1.8998595E+05	1.8999251E+05	0.114 ppm	15.26 ppm	PASS, 0.37 % of 30.79 ppm
1.0 MΩ	999983.3 MΩ	999981 MΩ	2.5 ppm	9.9996980E+05	9.9999680E+05	-2.298 ppm	11.00 ppm	PASS, 10.19 % of 22.56 ppm
1.9 MΩ	1899980.9 MΩ	1899979 MΩ	3.0 ppm	1.8998302E+06	1.9001316E+06	-1.017 ppm	76.32 ppm	PASS, 0.67 % of 152.75 ppm
10 MΩ	9999100 MΩ	9998989.1 MΩ	10.0 ppm	9.9984501E+06	9.9997499E+06	-11.095 ppm	55.00 ppm	PASS, 9.92 % of 111.80 ppm
19 MΩ	18998751 MΩ	18999301 MΩ	20.0 ppm	1.8987872E+07	1.9009630E+07	28.934 ppm	552.64 ppm	PASS, 2.62 % of 1105.99 ppm
100 MΩ	1.0000484E+08 MΩ	1.000098E+08 MΩ	50.0 ppm	9.9948837E+07	1.0006084E+08	49.550 ppm	510.00 ppm	PASS, 4.83 % of 1024.89 ppm

4W and 2W Zero test procedure for all test points that verify Zero offset of the OHMF function. 4-wire kelvin connection is used between DMM and MFC. 1GΩ resistance range is tested using the external standard, as MFC unable to provide this range value.

OHM ZERO 4W	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10 Ω	Range 0.0000011 Ω	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	Range -0.0000733 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 0.0001614 Ω	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range -0.0003589 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.0358941 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 0.8971115 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 0.2153068 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 0.3947291 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 0.2582223 Ω	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	Range 0.2561328 Ω	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	Range 0.2551640 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	Range 0.2490674 Ω	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	Range 0.2286410 Ω	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	Range 0.5204646 Ω	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	Range 3.4090180 Ω	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	Range 2.7630995 Ω	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	Range 2.6195619 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 SYNChronous 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	0.010001274	0.0312 %	-0.290006	0.310006	0.0127 %	3000.0300 %	PASS 0.00 %
0.01 V AC+DC @ 20 Hz	0.010001408	0.0312 %	-0.290006	0.310006	0.0141 %	3000.0300 %	PASS 0.00 %
0.01 V AC+DC @ 40 Hz	0.010001468	0.0312 %	-0.290006	0.310006	0.0147 %	3000.0300 %	PASS 0.00 %
0.01 V AC+DC @ 100 Hz	0.010001154	0.0312 %	-0.100005	0.120005	0.0115 %	1100.0200 %	PASS 0.00 %
0.01 V AC+DC @ 1.0 kHz	0.010000934	0.0312 %	-0.100005	0.120005	0.0093 %	1100.0200 %	PASS 0.00 %
0.01 V AC+DC @ 10.0 kHz	0.010002336	0.0312 %	-0.100006	0.120006	0.0234 %	1100.0300 %	PASS 0.00 %
0.01 V AC+DC @ 20.0 kHz	0.010001216	0.0312 %	-0.100006	0.120006	0.0122 %	1100.0300 %	PASS 0.00 %
0.01 V AC+DC @ 50.0 kHz	0.009998649	0.0447 %	-0.100014	0.120014	-0.0135 %	1100.1000 %	PASS 0.00 %
0.01 V AC+DC @ 100.0 kHz	0.0099811493	0.0773 %	-0.100058	0.120058	-0.1885 %	1100.5000 %	PASS 0.01 %
0.01 V AC+DC @ 300.0 kHz	0.0098444323	0.1500 %	-0.190055	0.210055	-1.5557 %	2000.4000 %	PASS 0.04 %
0.01 V AC+DC @ 500.0 kHz	0.0096146503	0.2500 %	-0.490070	0.510070	-3.8535 %	5000.4500 %	PASS 0.04 %
0.01 V AC+DC @ 1.0 MHz	0.0086747233	0.4000 %	-0.490085	0.510085	-13.2528 %	5000.4500 %	PASS 0.13 %
0.03 V AC+DC @ 10 Hz	0.030019953	0.0121 %	0.029994	0.030006	0.0665 %	0.0083 %	FAIL 225.89 %
0.03 V AC+DC @ 20 Hz	0.030021023	0.0121 %	0.029994	0.030006	0.0701 %	0.0083 %	FAIL 238.01 %
0.03 V AC+DC @ 40 Hz	0.030018837	0.0121 %	0.029994	0.030006	0.0628 %	0.0083 %	FAIL 213.26 %
0.03 V AC+DC @ 100 Hz	0.030019321	0.0121 %	0.029994	0.030006	0.0644 %	0.0077 %	FAIL 224.33 %
0.03 V AC+DC @ 1.0 kHz	0.030020075	0.0121 %	0.029994	0.030006	0.0669 %	0.0077 %	FAIL 233.08 %
0.03 V AC+DC @ 10.0 kHz	0.030020141	0.0121 %	0.029992	0.030008	0.0671 %	0.0147 %	FAIL 176.33 %
0.03 V AC+DC @ 20.0 kHz	0.030017723	0.0121 %	0.029992	0.030008	0.0591 %	0.0147 %	FAIL 155.17 %
0.03 V AC+DC @ 50.0 kHz	0.030019785	0.0256 %	0.029983	0.030017	0.0659 %	0.0307 %	PASS 82.50 %
0.03 V AC+DC @ 100.0 kHz	0.030010739	0.0591 %	0.029958	0.030042	0.0358 %	0.0807 %	PASS 17.90 %
0.03 V AC+DC @ 300.0 kHz	0.029963986	0.0964 %	0.029880	0.030120	-0.1200 %	0.3033 %	PASS 18.86 %
0.03 V AC+DC @ 500.0 kHz	0.029910552	0.1500 %	0.029654	0.030346	-0.2982 %	1.0033 %	PASS 14.70 %
0.03 V AC+DC @ 1.0 MHz	0.029818578	0.3000 %	0.029609	0.030391	-0.6047 %	1.0033 %	PASS 28.87 %
0.1 V AC+DC @ 10 Hz	0.10000542	0.0121 %	0.099980	0.100020	0.0054 %	0.0074 %	PASS 19.05 %
0.1 V AC+DC @ 20 Hz	0.10000191	0.0121 %	0.099980	0.100020	0.0019 %	0.0074 %	PASS 6.74 %
0.1 V AC+DC @ 40 Hz	0.10000149	0.0121 %	0.099980	0.100020	0.0015 %	0.0074 %	PASS 5.23 %
0.1 V AC+DC @ 100 Hz	0.10000003	0.0121 %	0.099981	0.100019	0.0000 %	0.0072 %	PASS 0.12 %
0.1 V AC+DC @ 1.0 kHz	0.10000248	0.0121 %	0.099981	0.100019	0.0025 %	0.0072 %	PASS 8.77 %
0.1 V AC+DC @ 10.0 kHz	0.10000086	0.0121 %	0.099974	0.100026	0.0009 %	0.0142 %	PASS 2.29 %
0.1 V AC+DC @ 20.0 kHz	0.099996399	0.0121 %	0.099974	0.100026	-0.0036 %	0.0142 %	PASS 9.64 %
0.1 V AC+DC @ 50.0 kHz	0.09999441	0.0256 %	0.099944	0.100056	-0.0056 %	0.0302 %	PASS 7.06 %
0.1 V AC+DC @ 100.0 kHz	0.099966793	0.0591 %	0.099861	0.100139	-0.0332 %	0.0802 %	PASS 16.67 %
0.1 V AC+DC @ 300.0 kHz	0.09981139	0.0964 %	0.099603	0.100397	-0.1886 %	0.3010 %	PASS 29.84 %
0.1 V AC+DC @ 500.0 kHz	0.099643699	0.1500 %	0.098849	0.101151	-0.3563 %	1.0010 %	PASS 17.60 %
0.1 V AC+DC @ 1.0 MHz	0.099545748	0.3000 %	0.098699	0.101301	-0.4543 %	1.0010 %	PASS 21.73 %
0.3 V AC+DC @ 10 Hz	0.29999946	0.0050 %	0.299960	0.300040	-0.0002 %	0.0083 %	PASS 0.93 %
0.3 V AC+DC @ 20 Hz	0.29999426	0.0050 %	0.299960	0.300040	-0.0019 %	0.0083 %	PASS 9.86 %

0.3 V AC+DC @ 40 Hz	0.29999049	0.0050 %	0.299960	0.300040	-0.0032 %	0.0083 %	PASS 16.34 %
0.3 V AC+DC @ 100 Hz	0.29999364	0.0050 %	0.299962	0.300038	-0.0021 %	0.0077 %	PASS 11.60 %
0.3 V AC+DC @ 1.0 kHz	0.30000207	0.0050 %	0.299962	0.300038	0.0007 %	0.0077 %	PASS 3.77 %
0.3 V AC+DC @ 10.0 kHz	0.29999429	0.0050 %	0.299941	0.300059	-0.0019 %	0.0147 %	PASS 6.15 %
0.3 V AC+DC @ 20.0 kHz	0.29996704	0.0050 %	0.299941	0.300059	-0.0110 %	0.0147 %	PASS 35.48 %
0.3 V AC+DC @ 50.0 kHz	0.29998276	0.0085 %	0.299882	0.300118	-0.0057 %	0.0307 %	PASS 9.03 %
0.3 V AC+DC @ 100.0 kHz	0.29999279	0.0138 %	0.299717	0.300283	-0.0024 %	0.0807 %	PASS 1.47 %
0.3 V AC+DC @ 300.0 kHz	0.30020697	0.0425 %	0.298962	0.301038	0.0690 %	0.3033 %	PASS 11.26 %
0.3 V AC+DC @ 500.0 kHz	0.30055723	0.1100 %	0.296660	0.303340	0.1857 %	1.0033 %	PASS 9.20 %
0.3 V AC+DC @ 1.0 MHz	0.30109714	0.1800 %	0.296450	0.303550	0.3657 %	1.0033 %	PASS 17.94 %
1.0 V AC+DC @ 10 Hz	1.0000197	0.0050 %	0.999876	1.000124	0.0020 %	0.0074 %	PASS 11.04 %
1.0 V AC+DC @ 20 Hz	0.99999671	0.0050 %	0.999876	1.000124	-0.0003 %	0.0074 %	PASS 1.85 %
1.0 V AC+DC @ 40 Hz	0.99999551	0.0050 %	0.999876	1.000124	-0.0004 %	0.0074 %	PASS 2.52 %
1.0 V AC+DC @ 100 Hz	0.99999184	0.0050 %	0.999878	1.000122	-0.0008 %	0.0072 %	PASS 4.67 %
1.0 V AC+DC @ 1.0 kHz	1.0000208	0.0050 %	0.999878	1.000122	0.0021 %	0.0072 %	PASS 11.90 %
1.0 V AC+DC @ 10.0 kHz	0.99997688	0.0050 %	0.999808	1.000192	-0.0023 %	0.0142 %	PASS 7.69 %
1.0 V AC+DC @ 20.0 kHz	0.9999137	0.0050 %	0.999808	1.000192	-0.0086 %	0.0142 %	PASS 28.69 %
1.0 V AC+DC @ 50.0 kHz	0.99993872	0.0085 %	0.999613	1.000387	-0.0061 %	0.0302 %	PASS 9.76 %
1.0 V AC+DC @ 100.0 kHz	0.99993478	0.0138 %	0.999060	1.000940	-0.0065 %	0.0802 %	PASS 4.01 %
1.0 V AC+DC @ 300.0 kHz	1.0007096	0.0425 %	0.996565	1.003435	0.0710 %	0.3010 %	PASS 11.67 %
1.0 V AC+DC @ 500.0 kHz	1.0019305	0.1100 %	0.988890	1.011110	0.1931 %	1.0010 %	PASS 9.59 %
1.0 V AC+DC @ 1.0 MHz	1.0065185	0.1800 %	0.988190	1.011810	0.6518 %	1.0010 %	PASS 32.05 %
3.0 V AC+DC @ 10 Hz	3.0000759	0.0048 %	2.999605	3.000395	0.0025 %	0.0083 %	PASS 13.13 %
3.0 V AC+DC @ 20 Hz	3.0000273	0.0048 %	2.999605	3.000395	0.0009 %	0.0083 %	PASS 4.73 %
3.0 V AC+DC @ 40 Hz	3.0000103	0.0048 %	2.999605	3.000395	0.0003 %	0.0083 %	PASS 1.78 %
3.0 V AC+DC @ 100 Hz	3.0000082	0.0048 %	2.999625	3.000375	0.0003 %	0.0077 %	PASS 1.50 %
3.0 V AC+DC @ 1.0 kHz	3.0000533	0.0048 %	2.999625	3.000375	0.0018 %	0.0077 %	PASS 9.81 %
3.0 V AC+DC @ 10.0 kHz	2.9998733	0.0048 %	2.999415	3.000585	-0.0042 %	0.0147 %	PASS 13.68 %
3.0 V AC+DC @ 20.0 kHz	2.9997909	0.0048 %	2.999415	3.000585	-0.0070 %	0.0147 %	PASS 22.58 %
3.0 V AC+DC @ 50.0 kHz	2.9997446	0.0085 %	2.998824	3.001176	-0.0085 %	0.0307 %	PASS 13.37 %
3.0 V AC+DC @ 100.0 kHz	2.998875	0.0121 %	2.997216	3.002784	-0.0375 %	0.0807 %	PASS 22.99 %
3.0 V AC+DC @ 300.0 kHz	2.9940348	0.0336 %	2.989891	3.010109	-0.1988 %	0.3033 %	PASS 32.58 %
3.0 V AC+DC @ 500.0 kHz	2.994589	0.1100 %	2.966600	3.033400	-0.1804 %	1.0033 %	PASS 8.93 %
3.0 V AC+DC @ 1.0 MHz	3.00609	0.1700 %	2.964800	3.035200	0.2030 %	1.0033 %	PASS 9.97 %
10.0 V AC+DC @ 10 Hz	10.000387	0.0048 %	9.998778	10.001222	0.0039 %	0.0074 %	PASS 21.94 %
10.0 V AC+DC @ 20 Hz	10.000257	0.0048 %	9.998778	10.001222	0.0026 %	0.0074 %	PASS 14.54 %
10.0 V AC+DC @ 40 Hz	10.000202	0.0048 %	9.998778	10.001222	0.0020 %	0.0074 %	PASS 11.41 %
10.0 V AC+DC @ 100 Hz	10.000175	0.0048 %	9.998798	10.001202	0.0018 %	0.0072 %	PASS 10.11 %
10.0 V AC+DC @ 1.0 kHz	10.000339	0.0048 %	9.998798	10.001202	0.0034 %	0.0072 %	PASS 19.57 %
10.0 V AC+DC @ 10.0 kHz	9.999714	0.0048 %	9.998098	10.001902	-0.0029 %	0.0142 %	PASS 9.54 %
10.0 V AC+DC @ 20.0 kHz	9.9995094	0.0048 %	9.998098	10.001902	-0.0049 %	0.0142 %	PASS 16.36 %
10.0 V AC+DC @ 50.0 kHz	9.9992075	0.0085 %	9.996125	10.003875	-0.0079 %	0.0302 %	PASS 12.63 %
10.0 V AC+DC @ 100.0 kHz	9.9957002	0.0121 %	9.990766	10.009234	-0.0430 %	0.0802 %	PASS 26.51 %

10.0 V AC+DC @ 300.0 kHz	9.9802636	0.0336 %	9.966536	10.033464	-0.1974 %	0.3010 %	PASS 32.58 %
10.0 V AC+DC @ 500.0 kHz	9.9822432	0.1100 %	9.888900	10.111100	-0.1776 %	1.0010 %	PASS 8.82 %
10.0 V AC+DC @ 1.0 MHz	10.050242	0.1700 %	9.882900	10.117100	0.5024 %	1.0010 %	PASS 24.74 %
30 V AC+DC @ 10 Hz	29.999492	0.0060 %	29.991795	30.008205	-0.0017 %	0.0213 %	PASS 3.82 %
30 V AC+DC @ 20 Hz	29.998919	0.0060 %	29.991795	30.008205	-0.0036 %	0.0213 %	PASS 8.13 %
30 V AC+DC @ 40 Hz	29.998881	0.0060 %	29.991795	30.008205	-0.0037 %	0.0213 %	PASS 8.42 %
30 V AC+DC @ 100 Hz	29.998921	0.0060 %	29.991995	30.008005	-0.0036 %	0.0207 %	PASS 8.35 %
30 V AC+DC @ 1.0 kHz	29.999252	0.0060 %	29.991995	30.008005	-0.0025 %	0.0207 %	PASS 5.79 %
30 V AC+DC @ 10.0 kHz	29.998711	0.0060 %	29.991995	30.008005	-0.0043 %	0.0207 %	PASS 9.98 %
30 V AC+DC @ 20.0 kHz	29.9977	0.0060 %	29.991995	30.008005	-0.0077 %	0.0207 %	PASS 17.81 %
30 V AC+DC @ 50.0 kHz	29.998711	0.0060 %	29.987495	30.012505	-0.0043 %	0.0357 %	PASS 5.94 %
30 V AC+DC @ 100.0 kHz	29.996562	0.0174 %	29.958591	30.041409	-0.0115 %	0.1207 %	PASS 4.70 %
30 V AC+DC @ 300.0 kHz	30.007557	0.0991 %	29.849273	30.150727	0.0252 %	0.4033 %	PASS 3.03 %
30 V AC+DC @ 500.0 kHz	30.042821	0.5200 %	29.393000	30.607000	0.1427 %	1.5033 %	PASS 4.49 %
100.0 V AC+DC @ 10 Hz	100.0004	0.0060 %	99.973582	100.026418	0.0004 %	0.0204 %	PASS 0.93 %
100.0 V AC+DC @ 20 Hz	99.998232	0.0060 %	99.973582	100.026418	-0.0018 %	0.0204 %	PASS 4.16 %
100.0 V AC+DC @ 40 Hz	99.998086	0.0060 %	99.973582	100.026418	-0.0019 %	0.0204 %	PASS 4.50 %
100.0 V AC+DC @ 100 Hz	99.997877	0.0060 %	99.973782	100.026218	-0.0021 %	0.0202 %	PASS 5.04 %
100.0 V AC+DC @ 1.0 kHz	99.999458	0.0060 %	99.973782	100.026218	-0.0005 %	0.0202 %	PASS 1.29 %
100.0 V AC+DC @ 10.0 kHz	99.999445	0.0060 %	99.973782	100.026218	-0.0006 %	0.0202 %	PASS 1.32 %
100.0 V AC+DC @ 20.0 kHz	99.996979	0.0060 %	99.973782	100.026218	-0.0030 %	0.0202 %	PASS 7.17 %
100.0 V AC+DC @ 50.0 kHz	99.998678	0.0095 %	99.955255	100.044745	-0.0013 %	0.0352 %	PASS 1.81 %
100.0 V AC+DC @ 100.0 kHz	99.985832	0.0174 %	99.862436	100.137564	-0.0142 %	0.1202 %	PASS 5.83 %
300.0 V AC+DC @ 40 Hz	299.91797	0.0079 %	299.074408	300.925592	-0.0273 %	0.3007 %	PASS 4.55 %
300.0 V AC+DC @ 100 Hz	299.91754	0.0079 %	299.854408	300.145592	-0.0275 %	0.0407 %	PASS 33.18 %
300.0 V AC+DC @ 1.0 kHz	299.92094	0.0079 %	299.854408	300.145592	-0.0264 %	0.0407 %	PASS 31.81 %
300.0 V AC+DC @ 10.0 kHz	299.9425	0.0110 %	299.784865	300.215135	-0.0192 %	0.0607 %	PASS 15.54 %
300.0 V AC+DC @ 20.0 kHz	299.94824	0.0110 %	299.784865	300.215135	-0.0173 %	0.0607 %	PASS 13.99 %
300.0 V AC+DC @ 50.0 kHz	300.10362	0.0245 %	299.564599	300.435401	0.0345 %	0.1207 %	PASS 14.03 %
300.0 V AC+DC @ 100.0 kHz	300.54715	0.0660 %	298.900000	301.100000	0.1824 %	0.3007 %	PASS 29.62 %
750.0 V AC+DC @ 40 Hz	749.86378	0.0079 %	747.689020	752.310980	-0.0182 %	0.3003 %	PASS 3.02 %
750.0 V AC+DC @ 100 Hz	749.86009	0.0079 %	749.639020	750.360980	-0.0187 %	0.0403 %	PASS 22.73 %
750.0 V AC+DC @ 1.0 kHz	749.87909	0.0079 %	749.639020	750.360980	-0.0161 %	0.0403 %	PASS 19.65 %
750.0 V AC+DC @ 10.0 kHz	750.04812	0.0110 %	749.465162	750.534838	0.0064 %	0.0603 %	PASS 5.24 %
750.0 V AC+DC @ 20.0 kHz	750.07513	0.0110 %	749.465162	750.534838	0.0100 %	0.0603 %	PASS 8.17 %
750.0 V AC+DC @ 50.0 kHz	750.46409	0.0245 %	748.914498	751.085502	0.0619 %	0.1203 %	PASS 25.21 %
750.0 V AC+DC @ 50.0 kHz	750.46174	0.0660 %	748.603000	751.397000	0.0616 %	0.1203 %	PASS 22.44 %

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	-5.6881122E-11						INFO
50 nADC	5E-08	4.9971684E-08						INFO
100 nADC	1E-07	9.9988407E-08	71.82 ppm	9.995282E-08	1.000472E-07	-115.934 ppm	400 ppm	PASS 14.26 %
-100 nADC	-1E-07	-9.9975785E-08	71.82 ppm	-1.000492E-07	-9.995082E-08	-242.151 ppm	420 ppm	PASS 28.41 %
-50 nADC	-5E-08	-5.0010393E-08						INFO
Zero µADC	0	4.854421E-11						INFO
0.5 µADC	5E-07	4.9996848E-07	71.82 ppm	4.999201E-07	5.000799E-07	-63.045 ppm	88 ppm	PASS 27.75 %
1.0 µADC	1E-06	9.9993001E-07	71.82 ppm	9.998792E-07	1.000121E-06	-69.994 ppm	49 ppm	PASS 40.25 %
-1.0 µADC	-1E-06	-9.9995484E-07	71.82 ppm	-1.000123E-06	-9.998772E-07	-45.156 ppm	51 ppm	PASS 25.63 %
-0.5 µADC	-5E-07	-5.0001486E-07	71.82 ppm	-5.000819E-07	-4.999181E-07	29.717 ppm	92 ppm	PASS 12.73 %
Zero 00 µADC	0	-1.6590667E-11						INFO
5 µADC	5E-06	4.9999542E-06	71.82 ppm	4.999522E-06	5.000478E-06	-9.163 ppm	24 ppm	PASS 6.06 %
10 µADC	1E-05	9.9998974E-06	71.82 ppm	9.999113E-06	1.000089E-05	-10.256 ppm	17 ppm	PASS 6.95 %
-10 µADC	-1E-05	-1.0000016E-05	71.82 ppm	-1.000089E-05	-9.999111E-06	1.630 ppm	17 ppm	PASS 1.10 %
-5 µADC	-5E-06	-4.9999674E-06	71.82 ppm	-5.00048E-06	-4.99952E-06	-6.516 ppm	24 ppm	PASS 4.30 %
Zero 000 µADC	0	-1.2582818E-11						INFO
50 µADC	5E-05	5.00001E-05	71.82 ppm	4.999531E-05	5.000469E-05	2.007 ppm	22 ppm	PASS 1.34 %
100 µADC	0.0001	9.9999893E-05	71.82 ppm	9.999122E-05	0.0001000088	-1.071 ppm	16 ppm	PASS 0.73 %
-100 µADC	-0.0001	-9.9999648E-05	71.82 ppm	-0.0001000088	-9.999122E-05	-3.516 ppm	16 ppm	PASS 2.39 %
-50 µADC	-5E-05	-4.9999742E-05	71.82 ppm	-5.000469E-05	-4.999531E-05	-5.156 ppm	22 ppm	PASS 3.43 %
Zero mADC	0	5.1281874E-11						INFO
0.5 mADC	0.0005	0.00050000018	33.64 ppm	0.0004999742	0.0005000258	0.367 ppm	18 ppm	PASS 0.48 %
1.0 mADC	0.001	0.00099999812	33.64 ppm	0.0009999524	0.001000048	-1.882 ppm	14 ppm	PASS 2.58 %
-1.0 mADC	-0.001	-0.00099999539	33.64 ppm	-0.001000048	-0.0009999524	-4.610 ppm	14 ppm	PASS 6.33 %
-0.5 mADC	-0.0005	-0.00049999727	33.64 ppm	-0.0005000258	-0.0004999742	-5.470 ppm	18 ppm	PASS 7.17 %
Zero 00 mADC	0	5.7598556E-11						INFO
5 mADC	0.005	0.00499996	32.27 ppm	0.004999749	0.005000251	-7.997 ppm	18 ppm	PASS 10.82 %
10 mADC	0.01	0.0099999332	32.27 ppm	0.009999537	0.01000046	-6.682 ppm	14 ppm	PASS 9.50 %
-10 mADC	-0.01	-0.0099999587	32.27 ppm	-0.01000046	-0.009999537	-4.132 ppm	14 ppm	PASS 5.87 %
-5 mADC	-0.005	-0.004999991	32.27 ppm	-0.005000251	-0.004999749	-1.801 ppm	18 ppm	PASS 2.44 %
Zero 000 mADC	0	-7.1743425E-13						INFO
50 mADC	0.05	0.049999966	53.32 ppm	0.04999568	0.05000432	-0.685 ppm	33 ppm	PASS 0.55 %
100 mADC	0.1	0.099999616	53.32 ppm	0.09999177	0.1000082	-3.837 ppm	29 ppm	PASS 3.16 %
-100 mADC	-0.1	-0.10000083	53.32 ppm	-0.1000082	-0.09999177	8.318 ppm	29 ppm	PASS 6.85 %
-50 mADC	-0.05	-0.050000526	53.32 ppm	-0.05000432	-0.04999568	10.520 ppm	33 ppm	PASS 8.39 %
Zero ADC	0	6.7696443E-11						INFO
0.5 ADC	0.5	0.49999444	115.22 ppm	0.4998824	0.5001176	-11.130 ppm	120 ppm	PASS 3.35 %

1.0 ADC	1	0.99996003	115.22 ppm	0.9997748	1.000225	-39.967 ppm	110 ppm	PASS 12.54 %
-1.0 ADC	-1	-0.9999315	115.22 ppm	-1.000225	-0.9997748	-68.497 ppm	110 ppm	PASS 21.50 %
-0.5 ADC	-0.5	-0.49997361	115.22 ppm	-0.5001176	-0.4998824	-52.775 ppm	120 ppm	PASS 15.86 %

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

ACI Test	200µA-2A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result, % spec
10 µA AC @ 50 Hz	1e-05	1.006188E-05	0.0160 %	-0.0002900076045	0.0003100076045	0.6188 %	3000.0600 %	INFO
100 µA AC @ 50 Hz	0.0001	0.00010001115	0.0160 %	-0.000200076045	0.000400076045	0.0111 %	300.0600 %	PASS 0.00 %
1.0 mA AC @ 50 Hz	0.001	0.00099999252	0.0160 %	0.00099921955	0.00100078045	-7.476 ppm	0.0620 %	PASS 0.58 %
10 mA AC @ 50 Hz	0.01	0.0099997629	0.0160 %	0.0099921955	0.0100078045	-23.711 ppm	0.0620 %	PASS 1.85 %
100 mA AC @ 50 Hz	0.1	0.10000111	0.0133 %	0.099924682	0.100075318	11.080 ppm	0.0620 %	PASS 0.87 %
1.0 A AC @ 50 Hz	1.0	1.0000663	0.0133 %	0.99904682	1.00095318	66.311 ppm	0.0820 %	PASS 3.99 %
10 µA AC @ 60 Hz	1e-05	1.0066876E-05	0.0133 %	-0.0002900073318	0.0003100073318	0.6688 %	3000.0600 %	INFO
100 µA AC @ 60 Hz	0.0001	0.00010001178	0.0133 %	-0.000200073318	0.000400073318	0.0118 %	300.0600 %	PASS 0.00 %
1.0 mA AC @ 60 Hz	0.001	0.0010000242	0.0129 %	0.00099925136	0.00100074864	24.185 ppm	0.0620 %	PASS 1.91 %
10 mA AC @ 60 Hz	0.01	0.010000078	0.0129 %	0.0099925136	0.0100074864	7.754 ppm	0.0620 %	PASS 0.61 %
100 mA AC @ 60 Hz	0.1	0.10000398	0.0288 %	0.099909182	0.100090818	39.763 ppm	0.0620 %	PASS 2.91 %
1.0 A AC @ 60 Hz	1.0	1.0000832	0.0288 %	0.99889182	1.00110818	83.188 ppm	0.0820 %	PASS 4.79 %
10 µA AC @ 1.0 kHz	1e-05	1.0063222E-05	0.0160 %	-0.0002900076045	0.0003100076045	0.6322 %	3000.0600 %	INFO
100 µA AC @ 1.0 kHz	0.0001	9.9984363E-05	0.0160 %	-0.000200076045	0.000400076045	-0.0156 %	300.0600 %	PASS 0.00 %
1.0 mA AC @ 1.0 kHz	0.001	0.0010000709	0.0160 %	0.00099951955	0.00100048045	70.932 ppm	0.0320 %	PASS 9.91 %
10 mA AC @ 1.0 kHz	0.01	0.010000496	0.0160 %	0.0099951955	0.0100048045	49.628 ppm	0.0320 %	PASS 6.93 %
100 mA AC @ 1.0 kHz	0.1	0.10000871	0.0133 %	0.099954682	0.100045318	87.067 ppm	0.0320 %	PASS 12.56 %
1.0 A AC @ 1.0 kHz	1.0	0.99996292	0.0133 %	0.99884682	1.00115318	-0.0037 %	0.1020 %	PASS 1.80 %

Test date	16 April 2020 20:38
UUT Internal TEMP?	33.7
Destructive overloads?	130, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated