cal equipment

Keysight 3458A

Manufacturer	HEWLETT-PACKARD	Calibration date	January 01 2020
Model Number	3458A	Ambient Temperature	26.63 °C
Serial	C11 unit	Relative Humidity	27.96 %
ID Number	KSB	Pressure	997.68
Notes	Test Belden, 3458-2, curr 5440-7003 cable	Test type	Automated verification

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]	9.9999838 VDC	±0.22 ppm	XD01	08/07/2019	08/07/2020
STDR	xDevs.com/Fluke	SL935	1.00006085 Ω	±0.17 ppm	XR03	08/14/2019	08/14/2020
STDR	xDevs.com/Fluke	SL935	9999.9737 kΩ	±0.17 ppm	XR02	08/14/2019	08/14/2020
MFC	Fluke	5720A	03/HLK	E2E6	XC01	08/18/2019	08/18/2020
Amplifier	Fluke	5725A		5930005	XB01	08/18/2019	08/18/2020
DMM	HP	3458A	001,X02	MY45040325	XD2	08/19/2019	08/19/2020
AVMS	Wavetek	4920M	80	29336	XA02	07/11/2017	07/11/2018

MFC last calibrated	137.0 days ago	MFC since DCV ZERO	0.0 days ago
MFC since WBFLAT	326.0 days ago	MFC since WBGAIN	136.0 days ago
MFC Confidence level	**24h 95% REL**	MFC Calibrate date	2019-08-17 00:00:00
MFC Calibrate date Zero	2020-10-01 00:00:00	Calibrate date WB Flatness	2019-02-09 00:00:00
Calibrate date WB Gain	2019-08-18 00:00:00	CAL CONST 6.5V reference voltage	6.95748455712
CAL CONST 13V reference voltage	13.85531006	CAL CONST 22V range positive zero	398.17951
CAL CONST 22V range negative zero	398.17922	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	9999.78412139	CAL CONST 10KOHM standard resistance	9998.72316298
CAL CONST, Zero calibration temperature	24.0	CAL CONST, All calibration temp	24.0
Booster type	VB5725,IB5725	Current output posts	IB5725
Calibrate date 5725A AMP	2019-08-17 00:00:00	Calibrated days ago	Debug
CAL CONST, Amp ACAL temperature	24.0	CAL CONST, Amp CalCheck temperature	24.0

Total uncertainty of each calibration point calculated with RSS

Meter Info	HP3458A	Last calibration date	7/24/2018
CALSTR?	"CAL JAN.29.2019,Tamb=25C"	Test date	01 January 2020 07:46
DUT Internal TEMP?	34.5	DUT Calibrations number?	17
Self-test result?	0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"
Firmware	9,2	Options	1,0
CAL? 72	0.98622781	CAL? 1,1	39999.8212
CAL? 2,1	7.09840695	CAL? Res 73	0.986368036
CAL 0 TEMP	42.46	CAL 10V TEMP	38.14
CAL 10KOhm TEMP	42.18	CAL? DCI	0.984159074

Service information

CAL DUMP
[(1, 39999.8212), (1, 7.09840695), (1, 2.03495101e-06), (1, 6.01453289e-07), (1, 1.59552016e-06), (1, 5.46304076e-07), (1, 1.29506693e-06), (1, 1.66420198e-07), (1, -1.19386327e-05), (1, -1.19386327e-05), (1, -7.76902751e-05), (1, -7.76902751e-05), (1, 0.399738644), (1, 0.401334469), (1, 0.400996011), (1, 0.415931315), (1, 0.423813228), (1, 0.696951147), (1, 2.80328015), (1, 2.55170372), (1, 2.55170372), (1, 0.290488515), (1, 0.291181105), (1, 0.290874177), (1, 0.295854561), (1, 0.293287522), (1, 0.495769373), (1, 1.11412416), (1, 1.11412416), (1, 1.11412416), (1,

0.000397758648), (1, -0.000899843876), (1, -0.000897829072), (1, -0.01344179), (1, -0.034787688), (1, -0.323327852), (1, -3.48613044), (1, -2.9470381), (1, -2.9470381), (1, 3.74865025e-05), (1, 0.000410408827), (1, 0.000381452026), (1, 0.00376046545), (1, 0.00111406852), (1, 0.00359253169), (1, -0.251576423), (1, 0.0), (1, 0.0), (1, 400.0), (1, 40.0), (1, 4.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 42.4563191), (1, 38.1420031), (1, 42.1789186), (1, 160.0), (1, -4.54758131e-12), (1, 2.24614432e-11), (1, 2.07806204e-10), (1, 1.51076204e-09), (1, 1.07080472e-08), (1, 1.09537463e-07), (1, 9.58251599e-07), (1, 1.2491741e-05), (1, 0.986269006), (1, 0.986323555), (1, 0.98622781), (1, 0.986368036), (1, 0.986272287), (1, 1.00014051), (1, 1.00003665), (1, 1.00009196), (1, 1.00053026), (1, 1.00011458), (1, 0.999770131), (1, 1.00016453), (1, 1.00016453), (1, 1.00016453), (1, 1.00014051), (1, 1.00003666), (1, 1.00009197), (1, 1.00053024), (1, 1.00011478), (1, 0.999770131), (1, 1.00016453), (1, 1.00016453), (1, 1.00016453), (1, 0.984159074), (1, 0.986273556), (1, 0.985754036), (1, 0.986068642), (1, 0.985132226), (1, 0.984676781), (1, 0.988441729), (1, 1.02662269), (1, 90.0), (1, 109.0), (1, 4.93833294), (1, 9.6447293e-12), (1, -1.18410504e-11), (1, 10002130.0), (1, -0.00962108037), (1, -0.0488235924), (1, 0.999999003), (1, 0.999999809), (1, 1666.99472), (1, 16666.9798), (1, 5119.0), (1, 5118.0), (1, 5119.0), (1, 5118.0), (1, 5119.0), (1, 61428.0), (1, 61416.0), (1, 61428.0), (1, 61416.0), (1, 61428.0), (1, 5008.0), (1, 5009.0), (1, 5008.0), (1, 5006.0), (1, 2504.0), (1, 2505.0), (1, 2504.0), (1, 12521.0), (1, 22765.0), (1, 60096.0), (1, 60108.0), (1, 60096.0), (1, 60072.0), (1, 30048.0), (1, 30060.0), (1, 30048.0), (1, 150252.0), (1, 273180.0), (1, 5008.0), (1, 5009.0), (1, 5008.0), (1, 5006.0), (1, 2504.0), (1, 2505.0), (1, 2504.0), (1, 12521.0), (1, 22765.0), (1, 60096.0), (1, 60108.0), (1, 60096.0), (1, 60072.0), (1, 30048.0), (1, 30060.0), (1, 30048.0), (1, 150252.0), (1, 273180.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 34.5077744), (1, 34.5762724), (1, 34.5965247), (1, 127.0), (1, 128.0), (1, 126.0), (1, 126.0), (1, 128.0), (1, 128.0), (1, 125.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 128.0), (1, 128.0), (1, 124.0), (1, 124.0), (1, 124.0), (1, 124.0), (1, 124.0), (1, 2530.0), (1, 2528.0), (1, 1503.0), (1, 2181.0), (1, 2417.0), (1, 2422.0), (1, 125.0), (1, 126.0), (1, 125.0), (1, 126.0), (1, 129.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, -0.00151929064), (1, -0.0166766569), (1, -0.168885378), (1, -1.68849076), (1, -16.4604919), (1, -166.19037), (1, -0.0014612939), (1, -0.0166136318), (1, -0.16948395), (1, -1.69099234), (1, -16.4655464), (1, -166.236814), (1, 1.00355884), (1, 1.01177912), (1, 1.03848543), (1, 1.03004767), (1, 1.01642948), (1, 1.01562719), (1, 467879.361), (1, 10.3847542), (1, 0.990578478), (1, 0.998774914), (1, 1.02513798), (1, 1.01680866), (1, 1.0033655), (1, 1.00257353), (1, 1.65999023e-05), (1, 0.000170975379), (1, 0.00170975379), (1, 0.0170975379), (1, 0.170975379), (1, 1.70975379), (1, 1.02632878), (1, 1.00018143), (1, 0.99994085), (1, 1.00000858), (1, 53.0), (1, 19.0), (1, 19.0), (1, 19.0), (1, 29.0), (1, 35.0), (1, 35.0), (1, 15.0)]

Destructive overloads?
157, DESTRUCTIVE OVERLOADS valid 2941
Reference
Verification cal 5720A/03 PC;
DUT Condition
xfer-calkit

Test procedure : Id

Source procedure : Id

Main DC Voltage ranges performance test.
Checks zero offset and +/-FS calibration on all ranges
The following test for the offset voltage specification using MFC 0V source in 4-wire ext sense mode as reference.
DCV gain range points verify gain of the DC voltage function, using uncorrected 24-hour MFC output. DC voltage offset of DUT is nulled before FS tests.

Test Description	Expected Value	Measured Value	Measurement Uncertainty	Lower Limit	Upper Limit	Deviation	DUT Spec	Test Status
Short 0 mVDC	0.0000000E+00	**2.02 µV**	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	FAIL
Short 0.0 VDC	0.0000000E+00	**2.38 µV**	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	FAIL
Short 00.0 VDC	0.0000000E+00	**2.58 µV**	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	FAIL
Short 000.0 VDC	0.0000000E+00	**19.87 µV**	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	FAIL
Short 0000.0 VDC	0.0000000E+00	**58.02 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	**0.01899998**	7.27 ppm	0.018999514	0.019000486	-1.056 ppm	18.29 ppm	PASS 2.68 %
0.1 VDC (0.10 Range)	0.1000000	**0.099999974**	7.27 ppm	0.099998723	0.10000128	-0.258 ppm	5.50 ppm	PASS 1.41 %
0.11 VDC (0.10 Range)	0.1100000	**0.10999991**	7.27 ppm	0.10999863	0.11000137	-0.809 ppm	5.23 ppm	PASS 4.52 %
-0.019 VDC (0.10 Range)	-0.0190000	**-0.019000331**	7.27 ppm	-0.019000486	-0.018999514	17.400 ppm	18.29 ppm	PASS 44.20 %
-0.1 VDC (0.10 Range)	-0.1000000	**-0.10000044**	7.27 ppm	-0.10000128	-0.099998723	4.450 ppm	5.50 ppm	PASS 24.41 %
-0.11 VDC (0.10 Range)	-0.1100000	**-0.1100005**	7.27 ppm	-0.11000137	-0.10999863	4.557 ppm	5.23 ppm	PASS 25.45 %
0.19 VDC (1.00 Range)	0.1900000	**0.19000018**	7.27 ppm	0.18999803	0.19000197	0.942 ppm	3.08 ppm	PASS 5.96 %
1.0 VDC (1.00 Range)	1.0000000	**0.99999979**	3.86 ppm	0.99999434	1.0000057	-0.208 ppm	1.80 ppm	PASS 2.44 %
1.1 VDC (1.00 Range)	1.1000000	**1.0999999**	3.86 ppm	1.0999938	1.1000062	-0.109 ppm	1.77 ppm	PASS 1.28 %
-0.19 VDC (1.00 Range)	-0.1900000	**-0.19000072**	7.27 ppm	-0.19000197	-0.18999803	3.811 ppm	3.08 ppm	PASS 24.14 %
-1.0 VDC (1.00 Range)	-1.0000000	**-1.0000013**	3.86 ppm	-1.0000057	-0.99999434	1.341 ppm	1.80 ppm	PASS 15.74 %
-1.1 VDC (1.00 Range)	-1.1000000	**-1.1000014**	3.86 ppm	-1.1000062	-1.0999938	1.231 ppm	1.77 ppm	PASS 14.49 %
1.9 VDC (10.00 Range)	1.9000000	**1.9000023**	3.86 ppm	1.8999912	1.9000088	1.227 ppm	0.76 ppm	PASS 15.59 %
10.0 VDC (10.00 Range)	10.0000000	**10.000014**	2.77 ppm	9.9999668	10.000033	1.379 ppm	0.55 ppm	PASS 24.42 %
11.0 VDC (10.00 Range)	11.0000000	**11.000016**	2.73 ppm	10.999964	11.000036	1.489 ppm	0.55 ppm	PASS 26.74 %
-1.9 VDC (10.00 Range)	-1.9000000	**-1.9000064**	3.86 ppm	-1.9000088	-1.8999912	3.348 ppm	0.76 ppm	PASS 42.55 %
-10.0 VDC (10.00 Range)	-10.0000000	**-10.00002**	2.77 ppm	-10.000033	-9.9999668	1.953 ppm	0.55 ppm	PASS 34.58 %
-11.0 VDC (10.00 Range)	-11.0000000	**-11.000023**	2.73 ppm	-11.000036	-10.999964	2.102 ppm	0.55 ppm	PASS 37.75 %
19 VDC (100.00 Range)	19.0000000	**19.000059**	2.77 ppm	18.99987	19.00013	3.088 ppm	4.08 ppm	PASS 31.31 %
100 VDC (100.00 Range)	100.0000000	**100.00015**	3.73 ppm	99.999347	100.00065	1.480 ppm	2.80 ppm	PASS 15.87 %
110 VDC (100.00 Range)	110.0000000	**110.00016**	3.73 ppm	109.99928	110.00072	1.421 ppm	2.77 ppm	PASS 15.29 %
-19 VDC (100.00 Range)	-19.0000000	**-19.000018**	2.77 ppm	-19.00013	-18.99987	0.932 ppm	4.08 ppm	PASS 9.45 %
-100 VDC (100.00 Range)	-100.0000000	**-100.00014**	3.73 ppm	-100.00065	-99.999347	1.410 ppm	2.80 ppm	PASS 15.12 %
-110 VDC (100.00 Range)	-110.0000000	**-110.00015**	3.73 ppm	-110.00072	-109.99928	1.351 ppm	2.77 ppm	PASS 14.54 %
190 VDC (1000.00 Range)	190.0000000	**190.00045**	3.73 ppm	189.99872	190.00128	2.388 ppm	3.03 ppm	PASS 24.86 %
500 VDC (1000.00 Range)	500.0000000	**500.00258**	3.73 ppm	499.99678	500.00322	5.167 ppm	2.70 ppm	PASS 69.26 %
1000 VDC (1000.00 Range)	1000.0000000	**1000.007**	5.45 ppm	999.97995	1000.02	7.012 ppm	2.60 ppm	PASS 26.60 %
-190 VDC (1000.00 Range)	-190.0000000	**-190.00088**	3.73 ppm	-190.00128	-189.99872	4.623 ppm	3.03 ppm	PASS 48.12 %
-500 VDC (1000.00 Range)	-500.0000000	**-500.00295**	3.73 ppm	-500.00322	-499.99678	5.907 ppm	2.70 ppm	PASS 23.50 %
-1000 VDC (1000.00 Range)	-1000.0000000	**-1000.0079**	5.45 ppm	-1000.02	-999.97995	7.881 ppm	2.60 ppm	PASS 29.90 %

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	0.9997928 Ω	**0.99977375 Ω**	32.0 ppm	9.9972581E-01	9.9985979E-01	-19.052 ppm	35.0 ppm	PASS, 20.08 % of 94.86 ppm
1.9 Ω	1.8998366 Ω	**1.8998008 Ω**	25.0 ppm	1.8997496E+00	1.8999236E+00	-18.826 ppm	20.8 ppm	PASS, 28.95 % of 65.03 ppm
10 Ω	10.000584 Ω	**10.000582 Ω**	5.0 ppm	1.0000454E+01	1.0000714E+01	-0.167 ppm	8.0 ppm	PASS, 0.89 % of 18.87 ppm
19 Ω	19.000245 Ω	**19.000296 Ω**	4.0 ppm	1.8999812E+01	1.9000678E+01	2.700 ppm	18.8 ppm	PASS, 7.03 % of 38.42 ppm
100 Ω	99.99666 Ω	**99.99677 Ω**	1.7 ppm	9.9995890E+01	9.9997430E+01	1.099 ppm	6.0 ppm	PASS, 8.81 % of 12.47 ppm
190 Ω	189.99422 Ω	**189.99452 Ω**	1.7 ppm	1.8999332E+02	1.8999512E+02	1.586 ppm	3.1 ppm	PASS, 22.70 % of 6.99 ppm
1.0 kΩ	1000.025 Ω	**1000.0255 Ω**	1.7 ppm	1.0000211E+03	1.0000289E+03	0.525 ppm	2.2 ppm	PASS, 9.45 % of 5.56 ppm
1.9 kΩ	1899.903 Ω	**1899.906 Ω**	1.7 ppm	1.8998940E+03	1.8999120E+03	1.573 ppm	3.1 ppm	PASS, 22.51 % of 6.99 ppm
10 kΩ	9999.784 Ω	**9999.7984 Ω**	1.6 ppm	9.9997460E+03	9.9998220E+03	1.438 ppm	2.2 ppm	PASS, 26.43 % of 5.44 ppm
19 kΩ	18999.247 Ω	**18999.283 Ω**	1.7 ppm	1.8999157E+04	1.8999337E+04	1.915 ppm	3.1 ppm	PASS, 27.41 % of 6.99 ppm
100 kΩ	99994.5 Ω	**99994.14 Ω**	2.0 ppm	9.9994080E+04	9.9994920E+04	-3.600 ppm	2.2 ppm	PASS, 60.54 % of 5.95 ppm
190 kΩ	189988.68 Ω	**189989.71 Ω**	2.0 ppm	1.8998540E+05	1.8999196E+05	5.427 ppm	15.3 ppm	PASS, 17.63 % of 30.79 ppm
1.0 MΩ	999979.8 Ω	**999981.41 Ω**	2.5 ppm	9.9996630E+05	9.9999330E+05	1.610 ppm	11.0 ppm	PASS, 7.14 % of 22.56 ppm
1.9 MΩ	1899973.9 Ω	**1899996.6 Ω**	3.0 ppm	1.8998232E+06	1.9001246E+06	11.937 ppm	76.3 ppm	PASS, 7.81 % of 152.75 ppm
10 MΩ	9999063 Ω	**9999066.2 Ω**	10.0 ppm	9.9984131E+06	9.9997129E+06	0.321 ppm	55.0 ppm	PASS, 0.29 % of 111.80 ppm
19 MΩ	18998631 Ω	**18999548 Ω**	20.0 ppm	1.8987752E+07	1.9009510E+07	48.250 ppm	552.6 ppm	PASS, 4.36 % of 1105.99 ppm
100 MΩ	1.0000492E+08 Ω	**1.0001522E+08 Ω**	50.0 ppm	9.9948917E+07	1.0006092E+08	102.973 ppm	510.0 ppm	PASS, 10.05 % 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 -0.0000101 Ω**	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	**Range -0.0000275 Ω**	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	**Range 0.0000036 Ω**	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	**Range 0.0000899 Ω**	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	**Range -0.0021563 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	**Range 0.2442922 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	**Range 2.3720063 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
100 MΩ	**Range 1.7610353 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
1 GΩ	**Range 1.9047933 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
OHM ZERO 2W	**DUT**	**Source unc.**	**Low Limit**	**Hi limit**	**Measured**	**24h spec**	**Result**
10 Ω	**Range 0.3117662 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	8.0000e-06 Ω	PASS
100 Ω	**Range 0.3003584 Ω**	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	**Range 0.2912901 Ω**	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	**Range 0.2691593 Ω**	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	**Range 0.1955010 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	**Range 0.5999524 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	**Range 3.9892764 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
100 MΩ	**Range 4.0970964 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
1 GΩ	**Range 4.1330358 Ω**	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS

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	**0.0099984824**	0.0312 %	0.009991	0.010009	-0.0152 %	0.0600 %	PASS 11.22 %
0.01 V AC+DC @ 20 Hz	**0.0099979386**	0.0312 %	0.009991	0.010009	-0.0206 %	0.0600 %	PASS 15.24 %
0.01 V AC+DC @ 40 Hz	**0.0099985634**	0.0312 %	0.009991	0.010009	-0.0144 %	0.0600 %	PASS 10.62 %
0.01 V AC+DC @ 100 Hz	**0.0099981989**	0.0312 %	0.009994	0.010006	-0.0180 %	0.0310 %	PASS 20.47 %
0.01 V AC+DC @ 1.0 kHz	**0.0099981987**	0.0312 %	0.009994	0.010006	-0.0180 %	0.0310 %	PASS 20.47 %
0.01 V AC+DC @ 10.0 kHz	**0.0099997891**	0.0312 %	0.009993	0.010007	-0.0021 %	0.0410 %	PASS 2.05 %
0.01 V AC+DC @ 20.0 kHz	**0.0099987722**	0.0312 %	0.009993	0.010007	-0.0123 %	0.0410 %	PASS 11.91 %
0.01 V AC+DC @ 50.0 kHz	**0.0099951245**	0.0447 %	0.009984	0.010016	-0.0488 %	0.1110 %	PASS 20.37 %
0.01 V AC+DC @ 100.0 kHz	**0.0099767789**	0.0773 %	0.009941	0.010059	-0.2322 %	0.5110 %	PASS 22.47 %
0.01 V AC+DC @ 300.0 kHz	**0.0098185292**	0.1500 %	0.009583	0.010417	-1.8147 %	4.0200 %	PASS 22.56 %
0.01 V AC+DC @ 500.0 kHz	**0.009551607**	0.2500 %	0.007470	0.012530	-4.4839 %	25.0500 %	PASS 8.95 %
0.01 V AC+DC @ 1.0 MHz	**0.0085829104**	0.4000 %	0.007455	0.012545	-14.1709 %	25.0500 %	PASS 28.28 %
0.03 V AC+DC @ 10 Hz	**0.030001226**	0.0121 %	0.029989	0.030011	0.0041 %	0.0233 %	PASS 7.77 %
0.03 V AC+DC @ 20 Hz	**0.030000413**	0.0121 %	0.029989	0.030011	0.0014 %	0.0233 %	PASS 2.62 %
0.03 V AC+DC @ 40 Hz	**0.030001514**	0.0121 %	0.029989	0.030011	0.0050 %	0.0233 %	PASS 9.59 %
0.03 V AC+DC @ 100 Hz	**0.030000629**	0.0121 %	0.029992	0.030008	0.0021 %	0.0137 %	PASS 5.74 %
0.03 V AC+DC @ 1.0 kHz	**0.030000565**	0.0121 %	0.029992	0.030008	0.0019 %	0.0137 %	PASS 5.16 %
0.03 V AC+DC @ 10.0 kHz	**0.030003264**	0.0121 %	0.029990	0.030010	0.0109 %	0.0207 %	PASS 22.70 %
0.03 V AC+DC @ 20.0 kHz	**0.030001888**	0.0121 %	0.029990	0.030010	0.0063 %	0.0207 %	PASS 13.13 %
0.03 V AC+DC @ 50.0 kHz	**0.030001838**	0.0256 %	0.029981	0.030019	0.0061 %	0.0367 %	PASS 6.85 %
0.03 V AC+DC @ 100.0 kHz	**0.029997712**	0.0591 %	0.029956	0.030044	-0.0076 %	0.0867 %	PASS 3.64 %
0.03 V AC+DC @ 300.0 kHz	**0.029968331**	0.0964 %	0.029871	0.030129	-0.1056 %	0.3333 %	PASS 15.21 %
0.03 V AC+DC @ 500.0 kHz	**0.02994934**	0.1500 %	0.029645	0.030355	-0.1689 %	1.0333 %	PASS 8.09 %
0.03 V AC+DC @ 1.0 MHz	**0.030024379**	0.3000 %	0.029600	0.030400	0.0813 %	1.0333 %	PASS 3.78 %
0.1 V AC+DC @ 10 Hz	**0.0999998**	0.0121 %	0.099974	0.100026	-0.0002 %	0.0140 %	PASS 0.54 %
0.1 V AC+DC @ 20 Hz	**0.099997769**	0.0121 %	0.099974	0.100026	-0.0022 %	0.0140 %	PASS 6.02 %
0.1 V AC+DC @ 40 Hz	**0.099997252**	0.0121 %	0.099974	0.100026	-0.0027 %	0.0140 %	PASS 7.41 %
0.1 V AC+DC @ 100 Hz	**0.099996618**	0.0121 %	0.099979	0.100021	-0.0034 %	0.0090 %	PASS 11.19 %
0.1 V AC+DC @ 1.0 kHz	**0.099997963**	0.0121 %	0.099979	0.100021	-0.0020 %	0.0090 %	PASS 6.74 %
0.1 V AC+DC @ 10.0 kHz	**0.10000576**	0.0121 %	0.099972	0.100028	0.0058 %	0.0160 %	PASS 14.35 %
0.1 V AC+DC @ 20.0 kHz	**0.10000258**	0.0121 %	0.099972	0.100028	0.0026 %	0.0160 %	PASS 6.42 %
0.1 V AC+DC @ 50.0 kHz	**0.10000262**	0.0256 %	0.099942	0.100058	0.0026 %	0.0320 %	PASS 3.19 %
0.1 V AC+DC @ 100.0 kHz	**0.099984492**	0.0591 %	0.099859	0.100141	-0.0155 %	0.0820 %	PASS 7.67 %
0.1 V AC+DC @ 300.0 kHz	**0.099888773**	0.0964 %	0.099594	0.100406	-0.1112 %	0.3100 %	PASS 17.13 %
0.1 V AC+DC @ 500.0 kHz	**0.099832843**	0.1500 %	0.098840	0.101160	-0.1672 %	1.0100 %	PASS 8.19 %
0.1 V AC+DC @ 1.0 MHz	**0.10016561**	0.3000 %	0.098690	0.101310	0.1656 %	1.0100 %	PASS 7.86 %
0.3 V AC+DC @ 10 Hz	**0.30001504**	0.0050 %	0.299918	0.300082	0.0050 %	0.0223 %	PASS 10.95 %
0.3 V AC+DC @ 20 Hz	**0.30001252**	0.0050 %	0.299918	0.300082	0.0042 %	0.0223 %	PASS 9.12 %
0.3 V AC+DC @ 40 Hz	**0.30000849**	0.0050 %	0.299918	0.300082	0.0028 %	0.0223 %	PASS 6.19 %
0.3 V AC+DC @ 100 Hz	**0.30000867**	0.0050 %	0.299944	0.300056	0.0029 %	0.0137 %	PASS 9.93 %
0.3 V AC+DC @ 1.0 kHz	**0.30002114**	0.0050 %	0.299944	0.300056	0.0070 %	0.0137 %	PASS 24.24 %
0.3 V AC+DC @ 10.0 kHz	**0.30003913**	0.0050 %	0.299923	0.300077	0.0130 %	0.0207 %	PASS 30.68 %
0.3 V AC+DC @ 20.0 kHz	**0.30001978**	0.0050 %	0.299923	0.300077	0.0066 %	0.0207 %	PASS 15.51 %
0.3 V AC+DC @ 50.0 kHz	**0.30004058**	0.0085 %	0.299864	0.300136	0.0135 %	0.0367 %	PASS 17.96 %
0.3 V AC+DC @ 100.0 kHz	**0.3001013**	0.0138 %	0.299699	0.300301	0.0338 %	0.0867 %	PASS 19.24 %
0.3 V AC+DC @ 300.0 kHz	**0.30052305**	0.0425 %	0.298872	0.301128	0.1744 %	0.3333 %	PASS 25.94 %
0.3 V AC+DC @ 500.0 kHz	**0.30123135**	0.1100 %	0.296570	0.303430	0.4105 %	1.0333 %	PASS 19.75 %
0.3 V AC+DC @ 1.0 MHz	**0.3036877**	0.1800 %	0.296360	0.303640	1.2292 %	1.0333 %	PASS 58.60 %
1.0 V AC+DC @ 10 Hz	**1.000048**	0.0050 %	0.999820	1.000180	0.0048 %	0.0130 %	PASS 17.25 %
1.0 V AC+DC @ 20 Hz	**1.0000369**	0.0050 %	0.999820	1.000180	0.0037 %	0.0130 %	PASS 13.27 %
1.0 V AC+DC @ 40 Hz	**1.000029**	0.0050 %	0.999820	1.000180	0.0029 %	0.0130 %	PASS 10.43 %
1.0 V AC+DC @ 100 Hz	**1.0000286**	0.0050 %	0.999860	1.000140	0.0029 %	0.0090 %	PASS 13.92 %

1.0 V AC+DC @ 1.0 kHz	**1.0000642**	0.0050 %	0.999860	1.000140	0.0064 %	0.0090 %	PASS 31.25 %
1.0 V AC+DC @ 10.0 kHz	**1.0001152**	0.0050 %	0.999790	1.000210	0.0115 %	0.0160 %	PASS 34.40 %
1.0 V AC+DC @ 20.0 kHz	**1.0000841**	0.0050 %	0.999790	1.000210	0.0084 %	0.0160 %	PASS 25.11 %
1.0 V AC+DC @ 50.0 kHz	**1.000136**	0.0085 %	0.999595	1.000405	0.0136 %	0.0320 %	PASS 20.53 %
1.0 V AC+DC @ 100.0 kHz	**1.0002799**	0.0138 %	0.999042	1.000958	0.0280 %	0.0820 %	PASS 16.83 %
1.0 V AC+DC @ 300.0 kHz	**1.0017521**	0.0425 %	0.996475	1.003525	0.1752 %	0.3100 %	PASS 28.00 %
1.0 V AC+DC @ 500.0 kHz	**1.0041306**	0.1100 %	0.988800	1.011200	0.4131 %	1.0100 %	PASS 20.33 %
1.0 V AC+DC @ 1.0 MHz	**1.0132939**	0.1800 %	0.988100	1.011900	1.3294 %	1.0100 %	PASS 64.79 %
3.0 V AC+DC @ 10 Hz	**3.0001613**	0.0048 %	2.999245	3.000755	0.0054 %	0.0203 %	PASS 12.87 %
3.0 V AC+DC @ 20 Hz	**3.0001244**	0.0048 %	2.999245	3.000755	0.0041 %	0.0203 %	PASS 9.93 %
3.0 V AC+DC @ 40 Hz	**3.0001183**	0.0048 %	2.999245	3.000755	0.0039 %	0.0203 %	PASS 9.44 %
3.0 V AC+DC @ 100 Hz	**3.0001105**	0.0048 %	2.999445	3.000555	0.0037 %	0.0137 %	PASS 12.71 %
3.0 V AC+DC @ 1.0 kHz	**3.0001932**	0.0048 %	2.999445	3.000555	0.0064 %	0.0137 %	PASS 22.22 %
3.0 V AC+DC @ 10.0 kHz	**3.0003767**	0.0048 %	2.999235	3.000765	0.0126 %	0.0207 %	PASS 29.58 %
3.0 V AC+DC @ 20.0 kHz	**3.0003497**	0.0048 %	2.999235	3.000765	0.0117 %	0.0207 %	PASS 27.47 %
3.0 V AC+DC @ 50.0 kHz	**3.0003849**	0.0085 %	2.998644	3.001356	0.0128 %	0.0367 %	PASS 17.04 %
3.0 V AC+DC @ 100.0 kHz	**3.0000366**	0.0121 %	2.997036	3.002964	0.0012 %	0.0867 %	PASS 0.70 %
3.0 V AC+DC @ 300.0 kHz	**2.9979074**	0.0336 %	2.988991	3.011009	-0.0698 %	0.3333 %	PASS 10.41 %
3.0 V AC+DC @ 500.0 kHz	**3.0022433**	0.1100 %	2.965700	3.034300	0.0748 %	1.0333 %	PASS 3.60 %
3.0 V AC+DC @ 1.0 MHz	**3.0288724**	0.1700 %	2.963900	3.036100	0.9624 %	1.0333 %	PASS 45.95 %
10.0 V AC+DC @ 10 Hz	**10.000499**	0.0048 %	9.998418	10.001582	0.0050 %	0.0110 %	PASS 20.80 %
10.0 V AC+DC @ 20 Hz	**10.00037**	0.0048 %	9.998418	10.001582	0.0037 %	0.0110 %	PASS 15.42 %
10.0 V AC+DC @ 40 Hz	**10.000335**	0.0048 %	9.998418	10.001582	0.0033 %	0.0110 %	PASS 13.94 %
10.0 V AC+DC @ 100 Hz	**10.000317**	0.0048 %	9.998618	10.001382	0.0032 %	0.0090 %	PASS 15.51 %
10.0 V AC+DC @ 1.0 kHz	**10.000559**	0.0048 %	9.998618	10.001382	0.0056 %	0.0090 %	PASS 27.37 %
10.0 V AC+DC @ 10.0 kHz	**10.001127**	0.0048 %	9.997918	10.002082	0.0113 %	0.0160 %	PASS 33.74 %
10.0 V AC+DC @ 20.0 kHz	**10.001125**	0.0048 %	9.997918	10.002082	0.0112 %	0.0160 %	PASS 33.65 %
10.0 V AC+DC @ 50.0 kHz	**10.001109**	0.0085 %	9.995946	10.004054	0.0111 %	0.0320 %	PASS 16.74 %
10.0 V AC+DC @ 100.0 kHz	**9.9993606**	0.0121 %	9.990586	10.009414	-0.0064 %	0.0820 %	PASS 3.86 %
10.0 V AC+DC @ 300.0 kHz	**9.9929036**	0.0336 %	9.965636	10.034364	-0.0710 %	0.3100 %	PASS 11.38 %
10.0 V AC+DC @ 500.0 kHz	**10.007447**	0.1100 %	9.888000	10.112000	0.0745 %	1.0100 %	PASS 3.66 %
10.0 V AC+DC @ 1.0 MHz	**10.105873**	0.1700 %	9.882000	10.118000	1.0587 %	1.0100 %	PASS 51.69 %
30 V AC+DC @ 10 Hz	**30.000945**	0.0060 %	29.988195	30.011805	0.0032 %	0.0333 %	PASS 4.65 %
30 V AC+DC @ 20 Hz	**30.000325**	0.0060 %	29.988195	30.011805	0.0011 %	0.0333 %	PASS 1.60 %
30 V AC+DC @ 40 Hz	**30.00024**	0.0060 %	29.988195	30.011805	0.0008 %	0.0333 %	PASS 1.18 %
30 V AC+DC @ 100 Hz	**30.000333**	0.0060 %	29.990195	30.009805	0.0011 %	0.0267 %	PASS 2.03 %
30 V AC+DC @ 1.0 kHz	**30.000886**	0.0060 %	29.990195	30.009805	0.0030 %	0.0267 %	PASS 5.40 %
30 V AC+DC @ 10.0 kHz	**30.002447**	0.0060 %	29.990195	30.009805	0.0082 %	0.0267 %	PASS 14.92 %
30 V AC+DC @ 20.0 kHz	**30.001312**	0.0060 %	29.990195	30.009805	0.0044 %	0.0267 %	PASS 8.00 %
30 V AC+DC @ 50.0 kHz	**29.995965**	0.0060 %	29.985695	30.014305	-0.0134 %	0.0417 %	PASS 15.97 %
30 V AC+DC @ 100.0 kHz	**29.974509**	0.0174 %	29.956791	30.043209	-0.0850 %	0.1267 %	PASS 33.23 %
30 V AC+DC @ 300.0 kHz	**29.819814**	0.0991 %	29.840273	30.159727	-0.6006 %	0.4333 %	PASS 67.56 %
30 V AC+DC @ 500.0 kHz	**29.690795**	0.5200 %	29.384000	30.616000	-1.0307 %	1.5333 %	PASS 31.83 %
100.0 V AC+DC @ 10 Hz	**100.00346**	0.0060 %	99.969982	100.030018	0.0035 %	0.0240 %	PASS 7.00 %
100.0 V AC+DC @ 20 Hz	**100.00154**	0.0060 %	99.969982	100.030018	0.0015 %	0.0240 %	PASS 3.11 %
100.0 V AC+DC @ 40 Hz	**100.00142**	0.0060 %	99.969982	100.030018	0.0014 %	0.0240 %	PASS 2.86 %
100.0 V AC+DC @ 100 Hz	**100.00153**	0.0060 %	99.971982	100.028018	0.0015 %	0.0220 %	PASS 3.36 %
100.0 V AC+DC @ 1.0 kHz	**100.00413**	0.0060 %	99.971982	100.028018	0.0041 %	0.0220 %	PASS 9.05 %
100.0 V AC+DC @ 10.0 kHz	**100.01249**	0.0060 %	99.971982	100.028018	0.0125 %	0.0220 %	PASS 27.38 %
100.0 V AC+DC @ 20.0 kHz	**100.00895**	0.0060 %	99.971982	100.028018	0.0089 %	0.0220 %	PASS 19.61 %
100.0 V AC+DC @ 50.0 kHz	**99.990319**	0.0095 %	99.953455	100.046545	-0.0097 %	0.0370 %	PASS 12.67 %
100.0 V AC+DC @ 100.0 kHz	**99.913368**	0.0174 %	99.860636	100.139364	-0.0866 %	0.1220 %	PASS 35.15 %
300.0 V AC+DC @ 40 Hz	**299.91562**	0.0079 %	299.056408	300.943592	-0.0281 %	0.3067 %	PASS 4.58 %
300.0 V AC+DC @ 100 Hz	**299.91649**	0.0079 %	299.836408	300.163592	-0.0278 %	0.0467 %	PASS 29.41 %
300.0 V AC+DC @ 1.0 kHz	**299.92261**	0.0079 %	299.836408	300.163592	-0.0258 %	0.0467 %	PASS 27.25 %
300.0 V AC+DC @ 10.0 kHz	**299.95821**	0.0110 %	299.766865	300.233135	-0.0139 %	0.0667 %	PASS 10.31 %
300.0 V AC+DC @ 20.0 kHz	**299.95497**	0.0110 %	299.766865	300.233135	-0.0150 %	0.0667 %	PASS 11.11 %
300.0 V AC+DC @ 50.0 kHz	**300.03731**	0.0245 %	299.546599	300.453401	0.0124 %	0.1267 %	PASS 4.82 %
300.0 V AC+DC @ 100.0 kHz	**300.3155**	0.0660 %	298.882000	301.118000	0.1052 %	0.3067 %	PASS 16.76 %

750.0 V AC+DC @ 40 Hz	**749.73195**	0.0079 %	747.671020	752.328980	-0.0357 %	0.3027 %	PASS 5.90 %
750.0 V AC+DC @ 100 Hz	**749.73326**	0.0079 %	749.621020	750.378980	-0.0356 %	0.0427 %	PASS 40.99 %
750.0 V AC+DC @ 1.0 kHz	**749.75631**	0.0079 %	749.621020	750.378980	-0.0325 %	0.0427 %	PASS 37.45 %
750.0 V AC+DC @ 10.0 kHz	**749.86843**	0.0110 %	749.447162	750.552838	-0.0175 %	0.0627 %	PASS 13.78 %
750.0 V AC+DC @ 20.0 kHz	**749.83734**	0.0110 %	749.447162	750.552838	-0.0217 %	0.0627 %	PASS 17.04 %
750.0 V AC+DC @ 50.0 kHz	**750.01634**	0.0245 %	748.896498	751.103503	0.0022 %	0.1227 %	PASS 0.87 %
750.0 V AC+DC @ 75.0 kHz	**750.03845**	0.0660 %	747.235000	752.765000	0.0051 %	0.3027 %	PASS 0.83 %

Procedure for all test points that verify Gain of the DC current DCI function. Both +/-FS points are tested.
2-wire connection at LO and DCI is used between DMM and MFC.
DCI gain range points verify gain of the DC current function, using corrected 24-hour MFC output.

DCI Test	100nA-1A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
Zero µADC	0	**7.3105873E-12**						INFO
50 nADC	5E-08	**5.005422E-08**						INFO
100 nADC	1.00000E-07 A	**1.0006389E-07 A**	71.82 ppm	9.995182E-08	1.000482E-07	638.856 ppm	410 ppm	PASS 76.74 %
-100 nADC	-1.00000E-07 A	**-9.9946505E-08 A**	71.82 ppm	-1.000482E-07	-9.995182E-08	-534.952 ppm	410 ppm	PASS 64.26 %
-50 nADC	-5E-08	**-4.9907522E-08**						INFO
Zero µADC	0	**9.7980524E-11**						INFO
0.5 µADC	5.00000E-07 A	**5.0002310E-07 A**	71.82 ppm	4.999191E-07	5.000809E-07	46.192 ppm	90 ppm	PASS 20.06 %
1.0 µADC	1.00000E-06 A	**1.0000576E-06 A**	71.82 ppm	9.998782E-07	1.000122E-06	57.628 ppm	50 ppm	PASS 32.93 %
-1.0 µADC	-1.00000E-06 A	**-9.9993948E-07 A**	71.82 ppm	-1.000122E-06	-9.998782E-07	-60.518 ppm	50 ppm	PASS 34.58 %
-0.5 µADC	-5.00000E-07 A	**-4.9997122E-07 A**	71.82 ppm	-5.000809E-07	-4.999191E-07	-57.551 ppm	90 ppm	PASS 24.99 %
Zero 00 µADC	0	**1.1363895E-10**						INFO
5 µADC	5.00000E-06 A	**5.0000331E-06 A**	71.82 ppm	4.999521E-06	5.000479E-06	6.629 ppm	24 ppm	PASS 4.38 %
10 µADC	1.00000E-05 A	**9.9999995E-06 A**	71.82 ppm	9.999112E-06	1.000089E-05	-0.053 ppm	17 ppm	PASS 0.04 %
-10 µADC	-1.00000E-05 A	**-9.9999296E-06 A**	71.82 ppm	-1.000089E-05	-9.999112E-06	-7.036 ppm	17 ppm	PASS 4.77 %
-5 µADC	-5.00000E-06 A	**-4.9999511E-06 A**	71.82 ppm	-5.000479E-06	-4.999521E-06	-9.771 ppm	24 ppm	PASS 6.45 %
Zero 000 µADC	0	**7.8795459E-11**						INFO
50 µADC	5.00000E-05 A	**4.9999881E-05 A**	71.82 ppm	4.999531E-05	5.000469E-05	-2.374 ppm	22 ppm	PASS 1.58 %
100 µADC	1.00000E-04 A	**9.9999839E-05 A**	71.82 ppm	9.999122E-05	0.0001000088	-1.614 ppm	16 ppm	PASS 1.10 %
-100 µADC	-1.00000E-04 A	**-9.9999976E-05 A**	71.82 ppm	-0.0001000088	-9.999122E-05	-0.242 ppm	16 ppm	PASS 0.16 %
-50 µADC	-5.00000E-05 A	**-4.9999973E-05 A**	71.82 ppm	-5.000469E-05	-4.999531E-05	-0.546 ppm	22 ppm	PASS 0.36 %
Zero mADC	0	**1.0123861E-10**						INFO
0.5 mADC	5.00000E-04 A	**4.9999876E-04 A**	33.64 ppm	0.0004999742	0.0005000258	-2.479 ppm	18 ppm	PASS 3.25 %
1.0 mADC	1.00000E-03 A	**9.9999698E-04 A**	33.64 ppm	0.0009999524	0.001000048	-3.019 ppm	14 ppm	PASS 4.14 %
-1.0 mADC	-1.00000E-03 A	**-9.9999570E-04 A**	33.64 ppm	-0.001000048	-0.0009999524	-4.303 ppm	14 ppm	PASS 5.90 %
-0.5 mADC	-5.00000E-04 A	**-4.9999722E-04 A**	33.64 ppm	-0.0005000258	-0.0004999742	-5.555 ppm	18 ppm	PASS 7.28 %
Zero 00 mADC	0	**7.2633081E-11**						INFO
5 mADC	5.00000E-03 A	**4.9999894E-03 A**	32.27 ppm	0.004999749	0.005000251	-2.117 ppm	18 ppm	PASS 2.86 %
10 mADC	1.00000E-02 A	**9.9999746E-03 A**	32.27 ppm	0.009999537	0.01000046	-2.540 ppm	14 ppm	PASS 3.61 %
-10 mADC	-1.00000E-02 A	**-9.9999602E-03 A**	32.27 ppm	-0.01000046	-0.009999537	-3.977 ppm	14 ppm	PASS 5.65 %
-5 mADC	-5.00000E-03 A	**-4.9999757E-03 A**	32.27 ppm	-0.005000251	-0.004999749	-4.869 ppm	18 ppm	PASS 6.59 %
Zero 000 mADC	0	**5.4964488E-11**						INFO
50 mADC	5.00000E-02 A	**5.0000154E-02 A**	53.32 ppm	0.04999568	0.05000432	3.077 ppm	33 ppm	PASS 2.45 %
100 mADC	1.00000E-01 A	**1.0000004E-01 A**	53.32 ppm	0.09999177	0.1000082	0.408 ppm	29 ppm	PASS 0.34 %
-100 mADC	-1.00000E-01 A	**-1.0000031E-01 A**	53.32 ppm	-0.1000082	-0.09999177	3.121 ppm	29 ppm	PASS 2.57 %
-50 mADC	-5.00000E-02 A	**-5.0000174E-02 A**	53.32 ppm	-0.05000432	-0.04999568	3.472 ppm	33 ppm	PASS 2.77 %
Zero ADC	0	**1.3217433E-10**						INFO
0.5 ADC	5.00000E-01 A	**4.9999479E-01 A**	115.22 ppm	0.4998824	0.5001176	-10.427 ppm	120 ppm	PASS 3.13 %
1.0 ADC	1.00000E+00 A	**9.9994317E-01 A**	115.22 ppm	0.9997748	1.000225	-56.825 ppm	110 ppm	PASS 17.84 %
-1.0 ADC	-1.00000E+00 A	**-9.9992222E-01 A**	115.22 ppm	-1.000225	-0.9997748	-77.777 ppm	110 ppm	PASS 24.41 %
-0.5 ADC	-5.00000E-01 A	**-4.9997333E-01 A**	115.22 ppm	-0.5001176	-0.4998824	-53.337 ppm	120 ppm	PASS 16.03 %

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	**1.0018193E-05 A**	0.0160 %	9.9623955e-06	1.00376045e-05	0.1819 %	0.3600 %	INFO
100 µA AC @ 50 Hz	0.0001	**9.9993946E-05 A**	0.0160 %	9.9893955e-05	0.000100106045	-0.0061 %	0.0900 %	PASS 3.31 %
1.0 mA AC @ 50 Hz	0.001	**9.9996345E-04 A**	0.0160 %	0.00099903955	0.00100096045	-0.0037 %	0.0800 %	PASS 2.24 %
10 mA AC @ 50 Hz	0.01	**9.9996270E-03 A**	0.0160 %	0.0099903955	0.0100096045	-0.0037 %	0.0800 %	PASS 2.29 %
100 mA AC @ 50 Hz	0.1	**9.9997625E-02 A**	0.0133 %	0.099906682	0.100093318	-0.0024 %	0.0800 %	PASS 1.46 %
1.0 A AC @ 50 Hz	1.0	**9.9992683E-01 A**	0.0133 %	0.99886682	1.00113318	-0.0073 %	0.1000 %	PASS 3.63 %
10 µA AC @ 60 Hz	1e-05	**1.0017909E-05 A**	0.0133 %	9.9626682e-06	1.00373318e-05	0.1791 %	0.3600 %	INFO
100 µA AC @ 60 Hz	0.0001	**9.9996478E-05 A**	0.0133 %	9.9896682e-05	0.000100103318	-0.0035 %	0.0900 %	PASS 1.94 %
1.0 mA AC @ 60 Hz	0.001	**9.9999221E-04 A**	0.0129 %	0.00099907136	0.00100092864	-0.0008 %	0.0800 %	PASS 0.48 %
10 mA AC @ 60 Hz	0.01	**9.9999144E-03 A**	0.0129 %	0.0099907136	0.0100092864	-0.0009 %	0.0800 %	PASS 0.53 %
100 mA AC @ 60 Hz	0.1	**1.0000047E-01 A**	0.0288 %	0.099891182	0.100108818	0.0005 %	0.0800 %	PASS 0.28 %
1.0 A AC @ 60 Hz	1.0	**9.9995661E-01 A**	0.0288 %	0.99871182	1.00128818	-0.0043 %	0.1000 %	PASS 2.08 %
10 µA AC @ 1.0 kHz	1e-05	**1.0017272E-05 A**	0.0160 %	9.9623955e-06	1.00376045e-05	0.1727 %	0.3600 %	INFO
100 µA AC @ 1.0 kHz	0.0001	**9.9988657E-05 A**	0.0160 %	9.9893955e-05	0.000100106045	-0.0113 %	0.0900 %	PASS 6.20 %
1.0 mA AC @ 1.0 kHz	0.001	**1.0000302E-03 A**	0.0160 %	0.00099933955	0.00100066045	0.0030 %	0.0500 %	PASS 2.87 %
10 mA AC @ 1.0 kHz	0.01	**1.0000295E-02 A**	0.0160 %	0.0099933955	0.0100066045	0.0029 %	0.0500 %	PASS 2.81 %
100 mA AC @ 1.0 kHz	0.1	**1.0000487E-01 A**	0.0133 %	0.099936682	0.100063318	0.0049 %	0.0500 %	PASS 4.70 %
1.0 A AC @ 1.0 kHz	1.0	**1.0000685E+00 A**	0.0133 %	0.99866682	1.00133318	0.0068 %	0.1200 %	PASS 2.83 %

Test completed

Test date	01 January 2020 21:53
UUT Internal TEMP?	34.5
Destructive overloads?	157, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated