

| | | | |
|--------------|-----------------|---------------------|--------------|
| Manufacturer | HEWLETT-PACKARD | Calibration date | July 31 2018 |
| Model Number | 3458A | Ambient Temperature | 27.88 °C |
| Serial | SECHP | Relative Humidity | 36.00 % |
| ID Number | XD5720A | Pressure | 1001.86 |
| Notes | Post-caltest | Test type | HLK5720 |

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 |
|--------------------|-----------------|---------|----------------|--------------|------|------------------|------------|
| MFC | HULK | 5720A | None | E2E6 | XD10 | 08/01/2018 | 09/01/2018 |
| STDR | ESI | SR104 | 10000.0012 KΩ | ±1.00 ppm | XR04 | 06/30/2018 | 12/30/2018 |
| STDR | xDevs.com/Fluke | SL935 | 1.00005942 Ω | ±0.17 ppm | XR03 | 05/31/2018 | 05/31/2019 |
| STDR | xDevs.com/Fluke | SL935 | 9999.9755 kΩ | ±0.33 ppm | XR02 | 05/31/2018 | 05/31/2019 |
| DC STD | Wavetek | 7000 | 10.0000007 VDC | ±0.9 ppm | XD02 | 06/07/2018 | 12/08/2018 |
| DC STD | xDevs.com | 792X[2] | 10.000009 VDC | ±2.2 ppm | XD01 | 02/16/2018 | 08/16/2018 |

| | | | |
|---|---------------------|--------------------------------------|---------------------|
| MFC last calibrated | 0.0 days ago | MFC since DCV ZERO | 0.0 days ago |
| MFC since WBFLAT | 11169.0 days ago | MFC since WBGAIN | 129.0 days ago |
| MFC Confidence level | 24h 95% REL | MFC Calibrate date | 2018-08-01 00:00:00 |
| MFC Calibrate date Zero | 2018-08-01 00:00:00 | Calibrate date WB Flatness | 1988-10-01 00:00:00 |
| Calibrate date WB Gain | 2018-03-25 00:00:00 | CAL CONST 6.5V reference voltage | 6.95748640608 |
| CAL CONST 13V reference voltage | 13.8553097902 | CAL CONST 22V range positive zero | 398.18054 |
| CAL CONST 22V range negative zero | 398.18004 | CAL CONST DAC Linearity | 0.0 |
| CAL CONST 10KOHM true output resistance | 9999.77557112 | CAL CONST 10KOHM standard resistance | 9998.74079464 |
| CAL CONST, Zero calibration temperature | 27.0 | CAL CONST, All calibration temp | 27.0 |

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? | "MM-JAN-4-2017,TEMP? 36.5,A=24.7" | Test date | 31 July 2018 23:15 |
| DUT Internal TEMP? | 36.2 | DUT Calibrations number? | 181 |
| Self-test result? | 103,"SYNTAX -- * Expected command header." | ACAL ALL result? | 0,"NO ERROR" |
| Firmware | 9,2 | Options | 0,0 |
| CAL? 72 | 0.982325713 | CAL? 1,1 | 39999.2704 |
| CAL? 2,1 | 7.07031717 | CAL? Res 73 | 0.98249167 |
| CAL 0 TEMP | 35.99 | CAL 10V TEMP | 35.44 |
| CAL 10KOhm TEMP | 36.41 | CAL? DCI | 0.981128804 |

Service information

CAL DUMP

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(1, -4.40413767e-05), (1, -4.40413767e-05), (1, -9.21503336e-05), (1, -9.21503336e-05), (1, 0.29631652), (1, 0.296711163), (1, 0.296503414), (1, 0.296917637), (1,
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-11.8695958), (1, -118.268915), (1, -0.00126762702), (1, -0.0119276464), (1, -0.118232332), (1, -1.20911746), (1, -11.8765181), (1, -118.222026), (1, 1.00578302), (1,
1.01033844), (1, 0.998636598), (1, 1.02267978), (1, 1.01082619), (1, 1.01037061), (1, 62393.6346), (1, 10.3462794), (1, 0.993371288), (1, 0.99795291), (1,
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50.0), (1, 12.0)]
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Destructive overloads?

285, DESTRUCTIVE OVERLOADS valid 2941

Reference

Short-Belden, Pomona LT for AUX1

DUT Condition

PostCal 2-meter

Test procedure : \$Id: hp3458a.py | Rev 786 | 2018/07/31 23:13:20 tin_fpga \$

Source procedure : \$Id: f5720a.py | Rev 786 | 2018/07/31 23:13:20 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 | 0.0000000E+00 | -0.58 µV | 0.75 µV | -0.910 µV | 0.910 µV | N/A | 0.16 µV | PASS |
| Short 0.0 VDC | 0.0000000E+00 | -0.24 µV | 0.75 µV | -0.900 µV | 0.900 µV | N/A | 0.15 µV | PASS |
| Short 00.0 VDC | 0.0000000E+00 | 0.37 µV | 0.75 µV | -1.070 µV | 1.070 µV | N/A | 0.32 µV | PASS |
| Short 000.0 VDC | 0.0000000E+00 | 8.93 µV | 0.75 µV | -14.750 µV | 14.750 µV | N/A | 14.00 µV | PASS |
| Short 0000.0 VDC | 0.0000000E+00 | 87.56 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 |
| 0.1 VDC (0.10 Range) | 0.1000000 | 0.10000021 | 7.27 ppm | 0.099998723 | 0.10000128 | 2.129 ppm | 5.50 ppm | PASS 16.67 % |
| -0.1 VDC (0.10 Range) | -0.1000000 | -0.10000025 | 7.27 ppm | -0.10000128 | -0.099998723 | 2.521 ppm | 5.50 ppm | PASS 19.74 % |
| 0.1 VDC (1.00 Range) | 0.1000000 | 0.1000006 | 7.27 ppm | 0.099999093 | 0.10000091 | 6.029 ppm | 1.80 ppm | PASS 66.47 % |
| 0.2 VDC (1.00 Range) | 0.2000000 | 0.20000067 | 3.86 ppm | 0.19999887 | 0.20000113 | 3.365 ppm | 1.80 ppm | PASS 59.45 % |
| 1.0 VDC (1.00 Range) | 1.0000000 | 1.000002 | 3.86 ppm | 0.99999434 | 1.0000057 | 1.962 ppm | 1.80 ppm | PASS 34.67 % |
| -0.1 VDC (1.00 Range) | -0.1000000 | -0.099999902 | 7.27 ppm | -0.10000091 | -0.099999093 | -0.976 ppm | 1.80 ppm | PASS 10.76 % |
| -0.2 VDC (1.00 Range) | -0.2000000 | -0.19999994 | 3.86 ppm | -0.20000113 | -0.19999887 | -0.291 ppm | 1.80 ppm | PASS 5.14 % |
| -1.0 VDC (1.00 Range) | -1.0000000 | -1.000001 | 3.86 ppm | -1.0000057 | -0.99999434 | 1.039 ppm | 1.80 ppm | PASS 18.36 % |
| 1.0 VDC (10.00 Range) | 1.0000000 | 1.0000025 | 3.86 ppm | 0.99999559 | 1.0000044 | 2.464 ppm | 0.55 ppm | PASS 55.87 % |
| 2.0 VDC (10.00 Range) | 2.0000000 | 2.0000034 | 2.77 ppm | 1.9999934 | 2.0000066 | 1.710 ppm | 0.55 ppm | PASS 51.51 % |
| 10.0 VDC (10.00 Range) | 10.0000000 | 10.000011 | 2.73 ppm | 9.9999672 | 10.000033 | 1.112 ppm | 0.55 ppm | PASS 33.89 % |
| -1.0 VDC (10.00 Range) | -1.0000000 | -1.0000006 | 3.86 ppm | -1.0000044 | -0.99999559 | 0.564 ppm | 0.55 ppm | PASS 12.79 % |
| -2.0 VDC (10.00 Range) | -2.0000000 | -2.0000014 | 2.77 ppm | -2.0000066 | -1.9999934 | 0.692 ppm | 0.55 ppm | PASS 20.86 % |
| -10.0 VDC (10.00 Range) | -10.0000000 | -10.000006 | 2.73 ppm | -10.000033 | -9.9999672 | 0.551 ppm | 0.55 ppm | PASS 16.78 % |
| 10 VDC (100.00 Range) | 10.0000000 | 10.000038 | 2.77 ppm | 9.9999443 | 10.000056 | 3.834 ppm | 2.80 ppm | PASS 68.83 % |
| 20 VDC (100.00 Range) | 20.0000000 | 20.000033 | 3.73 ppm | 19.999869 | 20.000131 | 1.661 ppm | 2.80 ppm | PASS 25.44 % |
| 100 VDC (100.00 Range) | 100.0000000 | 99.99997 | 3.73 ppm | 99.999347 | 100.00065 | -0.304 ppm | 2.80 ppm | PASS 4.65 % |
| -10 VDC (100.00 Range) | -10.0000000 | -9.9999914 | 2.77 ppm | -10.000056 | -9.9999443 | -0.862 ppm | 2.80 ppm | PASS 15.47 % |
| -20 VDC (100.00 Range) | -20.0000000 | -19.999999 | 3.73 ppm | -20.000131 | -19.999869 | -0.066 ppm | 2.80 ppm | PASS 1.01 % |
| -100 VDC (100.00 Range) | -100.0000000 | -99.999947 | 3.73 ppm | -100.00065 | -99.999347 | -0.530 ppm | 2.80 ppm | PASS 8.12 % |
| 100 VDC (1000.00 Range) | 100.0000000 | 100 | 3.73 ppm | 99.999367 | 100.00063 | 0.003 ppm | 2.60 ppm | PASS 0.05 % |
| 200 VDC (1000.00 Range) | 200.0000000 | 199.99985 | 3.73 ppm | 199.99873 | 200.00127 | -0.738 ppm | 2.60 ppm | PASS 11.67 % |
| 1000 VDC (1000.00 Range) | 1000.0000000 | 1000.0026 | 5.45 ppm | 999.97995 | 1000.02 | 2.566 ppm | 2.60 ppm | PASS 12.80 % |
| -100 VDC (1000.00 Range) | -100.0000000 | -99.999991 | 3.73 ppm | -100.00063 | -99.999367 | -0.092 ppm | 2.60 ppm | PASS 1.45 % |
| -200 VDC (1000.00 Range) | -200.0000000 | -199.99979 | 3.73 ppm | -200.00127 | -199.99873 | -1.037 ppm | 2.60 ppm | PASS 16.38 % |
| -1000 VDC (1000.00 Range) | -1000.0000000 | -1000.003 | 5.45 ppm | -1000.02 | -999.97995 | 3.036 ppm | 2.60 ppm | PASS 76.87 % |

Additional test for **combined DUT+MFC** DC Voltage Integral Linearity (INL) using fixed 10V range. Integral linearity is a measure of the device's deviation from ideal linear behaviour.

| DCV Linearity | 1V Range | DUT | Source unc. | Low Limit | Hi limit | Measured | 24h spec | Result |
|---------------|------------|-------------------|-------------|-------------|-------------|------------|----------|---------------|
| 1.0999999 | 1.0999999 | 1.1000015 | 2.73 ppm | 1.099996 | 1.100004 | 1.45 ppm | 0.55 ppm | PASS 44.19 % |
| 0.9999999 | 0.9999999 | 1.0000016 | 2.73 ppm | 0.9999966 | 1.000003 | 1.67 ppm | 0.55 ppm | PASS 51.04 % |
| 0.9000000 | 0.9000000 | 0.9000016 | 2.73 ppm | 0.899997 | 0.900003 | 1.73 ppm | 0.55 ppm | PASS 52.67 % |
| 0.8888888 | 0.8888888 | 0.8888904 | 2.73 ppm | 0.8888859 | 0.8888917 | 1.79 ppm | 0.55 ppm | PASS 54.58 % |
| 0.8000000 | 0.8000000 | 0.8000016 | 2.73 ppm | 0.7999974 | 0.8000026 | 1.97 ppm | 0.55 ppm | PASS 59.95 % |
| 0.7777777 | 0.7777777 | 0.7777792 | 2.73 ppm | 0.7777751 | 0.7777803 | 1.96 ppm | 0.55 ppm | PASS 59.89 % |
| 0.7000000 | 0.7000000 | 0.7000014 | 2.73 ppm | 0.6999977 | 0.7000023 | 2.05 ppm | 0.55 ppm | PASS 62.45 % |
| 0.6666666 | 0.6666666 | 0.6666680 | 2.73 ppm | 0.6666644 | 0.6666688 | 2.15 ppm | 0.55 ppm | PASS 65.49 % |
| 0.6000000 | 0.6000000 | 0.6000013 | 2.73 ppm | 0.599998 | 0.600002 | 2.19 ppm | 0.55 ppm | PASS 66.77 % |
| 0.5555555 | 0.5555555 | 0.5555567 | 2.73 ppm | 0.5555537 | 0.5555573 | 2.20 ppm | 0.55 ppm | PASS 67.02 % |
| 0.5000000 | 0.5000000 | 0.5000012 | 2.73 ppm | 0.4999984 | 0.5000016 | 2.30 ppm | 0.55 ppm | PASS 70.22 % |
| 0.4444444 | 0.4444444 | 0.4444455 | 2.73 ppm | 0.4444429 | 0.4444459 | 2.43 ppm | 0.55 ppm | PASS 74.10 % |
| 0.4000000 | 0.4000000 | 0.4000010 | 2.73 ppm | 0.3999987 | 0.4000013 | 2.53 ppm | 0.55 ppm | PASS 77.02 % |
| 0.3333333 | 0.3333333 | 0.3333342 | 2.73 ppm | 0.3333322 | 0.3333344 | 2.58 ppm | 0.55 ppm | PASS 78.66 % |
| 0.3000000 | 0.3000000 | 0.30000080 | 2.73 ppm | 0.299999 | 0.300001 | 2.67 ppm | 0.55 ppm | PASS 81.41 % |
| 0.2222222 | 0.2222222 | 0.22222288 | 2.73 ppm | 0.2222215 | 0.2222229 | 3.07 ppm | 0.55 ppm | PASS 93.70 % |
| 0.2000000 | 0.2000000 | 0.20000063 | 2.73 ppm | 0.1999993 | 0.2000007 | 3.17 ppm | 0.55 ppm | PASS 96.74 % |
| 0.1234567 | 0.1234567 | 0.1234572 | 2.73 ppm | 0.1234563 | 0.1234571 | 3.91 ppm | 0.55 ppm | FAIL 119.22 % |
| 0.1111111 | 0.1111111 | 0.1111116 | 2.73 ppm | 0.1111107 | 0.1111115 | 4.07 ppm | 0.55 ppm | FAIL 124.12 % |
| 0.1000000 | 0.1000000 | 0.1000004 | 2.73 ppm | 0.0999967 | 0.1000003 | 4.27 ppm | 0.55 ppm | FAIL 130.20 % |
| 0.0987654 | 0.0987654 | 0.0987658 | 3.86 ppm | 0.09876496 | 0.09876584 | 4.49 ppm | 0.55 ppm | FAIL 101.88 % |
| 0.0111111 | 0.0111111 | 0.0111114 | 7.27 ppm | 0.0111101 | 0.0111119 | 25.62 ppm | 0.55 ppm | FAIL 327.60 % |
| -0.0111111 | -0.0111111 | -0.0111107 | 7.27 ppm | -0.0111119 | -0.0111101 | -32.35 ppm | 0.55 ppm | FAIL 413.62 % |
| -0.0987654 | -0.0987654 | -0.0987652 | 3.86 ppm | -0.09876584 | -0.09876496 | -1.86 ppm | 0.55 ppm | PASS 42.18 % |
| -0.1000000 | -0.1000000 | -0.0999998 | 2.73 ppm | -0.1000003 | -0.0999967 | -1.91 ppm | 0.55 ppm | PASS 58.35 % |
| -0.1111111 | -0.1111111 | -0.1111109 | 2.73 ppm | -0.1111115 | -0.1111107 | -1.56 ppm | 0.55 ppm | PASS 47.69 % |
| -0.1234567 | -0.1234567 | -0.1234565 | 2.73 ppm | -0.1234571 | -0.1234563 | -1.37 ppm | 0.55 ppm | PASS 41.88 % |
| -0.2000000 | -0.2000000 | -0.1999999 | 2.73 ppm | -0.2000007 | -0.1999993 | -0.38 ppm | 0.55 ppm | PASS 11.44 % |
| -0.2222222 | -0.2222222 | -0.2222222 | 2.73 ppm | -0.2222229 | -0.2222215 | -0.09 ppm | 0.55 ppm | PASS 2.62 % |
| -0.3000000 | -0.3000000 | -0.3000001 | 2.73 ppm | -0.300001 | -0.299999 | 0.25 ppm | 0.55 ppm | PASS 7.76 % |
| -0.3333333 | -0.3333333 | -0.3333334 | 2.73 ppm | -0.3333344 | -0.3333322 | 0.41 ppm | 0.55 ppm | PASS 12.57 % |
| -0.4000000 | -0.4000000 | -0.4000002 | 2.73 ppm | -0.4000013 | -0.3999987 | 0.59 ppm | 0.55 ppm | PASS 17.84 % |
| -0.4444444 | -0.4444444 | -0.4444448 | 2.73 ppm | -0.4444459 | -0.4444429 | 0.89 ppm | 0.55 ppm | PASS 27.13 % |
| -0.5000000 | -0.5000000 | -0.5000005 | 2.73 ppm | -0.5000016 | -0.4999984 | 0.91 ppm | 0.55 ppm | PASS 27.84 % |
| -0.5555555 | -0.5555555 | -0.5555560 | 2.73 ppm | -0.5555573 | -0.5555537 | 0.94 ppm | 0.55 ppm | PASS 28.55 % |
| -0.6000000 | -0.6000000 | -0.6000006 | 2.73 ppm | -0.600002 | -0.599998 | 0.95 ppm | 0.55 ppm | PASS 28.89 % |
| -0.6666666 | -0.6666666 | -0.6666673 | 2.73 ppm | -0.6666688 | -0.6666644 | 1.02 ppm | 0.55 ppm | PASS 31.13 % |
| -0.7000000 | -0.7000000 | -0.7000007 | 2.73 ppm | -0.7000023 | -0.6999977 | 1.03 ppm | 0.55 ppm | PASS 31.32 % |
| -0.7777777 | -0.7777777 | -0.7777785 | 2.73 ppm | -0.7777803 | -0.7777751 | 1.04 ppm | 0.55 ppm | PASS 31.69 % |
| -0.8000000 | -0.8000000 | -0.8000009 | 2.73 ppm | -0.8000026 | -0.7999974 | 1.12 ppm | 0.55 ppm | PASS 34.07 % |
| -0.8888888 | -0.8888888 | -0.8888898 | 2.73 ppm | -0.8888917 | -0.8888859 | 1.07 ppm | 0.55 ppm | PASS 32.73 % |
| -0.9000000 | -0.9000000 | -0.9000010 | 2.73 ppm | -0.9000003 | -0.899997 | 1.06 ppm | 0.55 ppm | PASS 32.26 % |
| -0.9999999 | -0.9999999 | -1.0000010 | 2.73 ppm | -1.000003 | -0.9999966 | 1.06 ppm | 0.55 ppm | PASS 32.40 % |
| -1.0999999 | -1.0999999 | -1.1000010 | 2.73 ppm | -1.100004 | -1.099996 | 1.03 ppm | 0.55 ppm | PASS 31.49 % |
| DCV Linearity | 10V Range | DUT | Source unc. | Low Limit | Hi limit | Measured | 24h spec | Result |
| 10.999999 | 10.999999 | 11.0000113 | 2.73 ppm | 10.99996 | 11.00004 | 1.12 ppm | 0.55 ppm | PASS 34.01 % |
| 10.101010 | 10.101010 | 10.1010222 | 2.73 ppm | 10.10098 | 10.10104 | 1.20 ppm | 0.55 ppm | PASS 36.70 % |
| 10.000000 | 10.000000 | 10.0000123 | 2.73 ppm | 9.999967 | 10.00003 | 1.23 ppm | 0.55 ppm | PASS 37.49 % |
| 9.999999 | 9.999999 | 10.0000111 | 2.73 ppm | 9.999966 | 10.00003 | 1.21 ppm | 0.55 ppm | PASS 37.02 % |
| 9.000000 | 9.000000 | 9.0000112 | 2.73 ppm | 8.99997 | 9.00003 | 1.24 ppm | 0.55 ppm | PASS 37.88 % |
| 8.888888 | 8.888888 | 8.8888991 | 2.73 ppm | 8.888859 | 8.888917 | 1.24 ppm | 0.55 ppm | PASS 37.95 % |
| 8.000000 | 8.000000 | 8.0000098 | 2.73 ppm | 7.999974 | 8.000026 | 1.23 ppm | 0.55 ppm | PASS 37.52 % |
| 7.777777 | 7.777777 | 7.7777864 | 2.73 ppm | 7.777751 | 7.777803 | 1.21 ppm | 0.55 ppm | PASS 36.99 % |
| 7.000000 | 7.000000 | 7.0000085 | 2.73 ppm | 6.999977 | 7.000023 | 1.22 ppm | 0.55 ppm | PASS 37.10 % |
| 6.666666 | 6.666666 | 6.6666741 | 2.73 ppm | 6.666644 | 6.666688 | 1.21 ppm | 0.55 ppm | PASS 36.90 % |
| 6.000000 | 6.000000 | 6.0000072 | 2.73 ppm | 5.99998 | 6.00002 | 1.20 ppm | 0.55 ppm | PASS 36.70 % |
| 5.555555 | 5.555555 | 5.5555616 | 2.73 ppm | 5.555537 | 5.555573 | 1.19 ppm | 0.55 ppm | PASS 36.28 % |
| 5.000000 | 5.000000 | 5.0000060 | 2.73 ppm | 4.999984 | 5.000016 | 1.20 ppm | 0.55 ppm | PASS 36.68 % |
| 4.444444 | 4.444444 | 4.4444494 | 2.73 ppm | 4.444429 | 4.444459 | 1.22 ppm | 0.55 ppm | PASS 37.15 % |
| 4.000000 | 4.000000 | 4.0000050 | 2.73 ppm | 3.999987 | 4.000013 | 1.24 ppm | 0.55 ppm | PASS 37.88 % |
| 3.333333 | 3.333333 | 3.3333371 | 2.73 ppm | 3.333322 | 3.333344 | 1.23 ppm | 0.55 ppm | PASS 37.54 % |
| 3.000000 | 3.000000 | 3.0000038 | 2.73 ppm | 2.99999 | 3.00001 | 1.27 ppm | 0.55 ppm | PASS 38.60 % |

| 2.222222 | 2.222222 | 2.2222248 | 2.73 ppm | 2.222215 | 2.222229 | 1.24 ppm | 0.55 ppm | PASS 37.78 % |
|---------------|------------|-------------|-------------|------------|------------|-----------|----------|--------------|
| 2.000000 | 2.000000 | 2.0000024 | 2.73 ppm | 1.999993 | 2.000007 | 1.21 ppm | 0.55 ppm | PASS 36.94 % |
| 1.111111 | 1.111111 | 1.1111122 | 2.73 ppm | 1.111107 | 1.111115 | 1.10 ppm | 0.55 ppm | PASS 33.57 % |
| 1.000000 | 1.000000 | 1.0000010 | 3.86 ppm | 0.9999956 | 1.000004 | 1.01 ppm | 0.55 ppm | PASS 22.97 % |
| 0.555555 | 0.555555 | 0.5555554 | 7.27 ppm | 0.5555507 | 0.5555593 | 0.66 ppm | 0.55 ppm | PASS 8.38 % |
| -0.555555 | -0.555555 | -0.5555554 | 7.27 ppm | -0.5555593 | -0.5555507 | 0.64 ppm | 0.55 ppm | PASS 8.23 % |
| -1.000000 | -1.000000 | -1.0000007 | 3.86 ppm | -1.000004 | -0.9999956 | 0.72 ppm | 0.55 ppm | PASS 16.43 % |
| -1.111111 | -1.111111 | -1.1111118 | 2.73 ppm | -1.111115 | -1.111107 | 0.70 ppm | 0.55 ppm | PASS 21.21 % |
| -2.000000 | -2.000000 | -2.0000016 | 2.73 ppm | -2.000007 | -1.999993 | 0.79 ppm | 0.55 ppm | PASS 24.08 % |
| -2.222222 | -2.222222 | -2.2222238 | 2.73 ppm | -2.222229 | -2.222215 | 0.79 ppm | 0.55 ppm | PASS 24.01 % |
| -3.000000 | -3.000000 | -3.0000025 | 2.73 ppm | -3.00001 | -2.99999 | 0.83 ppm | 0.55 ppm | PASS 25.16 % |
| -3.333333 | -3.333333 | -3.3333357 | 2.73 ppm | -3.333344 | -3.333322 | 0.82 ppm | 0.55 ppm | PASS 24.93 % |
| -4.000000 | -4.000000 | -4.0000031 | 2.73 ppm | -4.000013 | -3.999987 | 0.78 ppm | 0.55 ppm | PASS 23.74 % |
| -4.444444 | -4.444444 | -4.4444474 | 2.73 ppm | -4.444459 | -4.444429 | 0.77 ppm | 0.55 ppm | PASS 23.52 % |
| -5.000000 | -5.000000 | -5.0000037 | 2.73 ppm | -5.000016 | -4.999984 | 0.75 ppm | 0.55 ppm | PASS 22.83 % |
| -5.555555 | -5.555555 | -5.5555592 | 2.73 ppm | -5.555573 | -5.555537 | 0.76 ppm | 0.55 ppm | PASS 23.25 % |
| -6.000000 | -6.000000 | -6.0000047 | 2.73 ppm | -6.00002 | -5.99998 | 0.79 ppm | 0.55 ppm | PASS 23.99 % |
| -6.666666 | -6.666666 | -6.6666715 | 2.73 ppm | -6.666688 | -6.666644 | 0.83 ppm | 0.55 ppm | PASS 25.17 % |
| -7.000000 | -7.000000 | -7.0000054 | 2.73 ppm | -7.000023 | -6.999977 | 0.78 ppm | 0.55 ppm | PASS 23.64 % |
| -7.777777 | -7.777777 | -7.7777833 | 2.73 ppm | -7.777803 | -7.777751 | 0.82 ppm | 0.55 ppm | PASS 24.86 % |
| -8.000000 | -8.000000 | -8.0000066 | 2.73 ppm | -8.000026 | -7.999974 | 0.82 ppm | 0.55 ppm | PASS 25.06 % |
| -8.888888 | -8.888888 | -8.8888951 | 2.73 ppm | -8.888917 | -8.888859 | 0.80 ppm | 0.55 ppm | PASS 24.46 % |
| -9.000000 | -9.000000 | -9.0000071 | 2.73 ppm | -9.00003 | -8.99997 | 0.78 ppm | 0.55 ppm | PASS 23.91 % |
| -9.999999 | -9.999999 | -10.0000070 | 2.73 ppm | -10.00003 | -9.999966 | 0.80 ppm | 0.55 ppm | PASS 24.32 % |
| -10.000000 | -10.000000 | -10.0000075 | 2.73 ppm | -10.00003 | -9.999967 | 0.75 ppm | 0.55 ppm | PASS 22.99 % |
| -10.101010 | -10.101010 | -10.1010174 | 2.73 ppm | -10.10104 | -10.10098 | 0.73 ppm | 0.55 ppm | PASS 22.38 % |
| -10.999999 | -10.999999 | -11.0000072 | 2.73 ppm | -11.00004 | -10.99996 | 0.74 ppm | 0.55 ppm | PASS 22.64 % |
| DCV Linearity | 100V Range | DUT | Source unc. | Low Limit | Hi limit | Measured | 24h spec | Result |
| 100.99999 | 100.99999 | 100.9999426 | 2.73 ppm | 100.99966 | 101.00032 | -0.47 ppm | 0.55 ppm | PASS 10.46 % |
| 100.10101 | 100.10101 | 100.1009654 | 2.73 ppm | 100.10068 | 100.10134 | -0.45 ppm | 0.55 ppm | PASS 9.95 % |
| 100.00000 | 100.00000 | 99.9999656 | 2.73 ppm | 99.999672 | 100.00033 | -0.34 ppm | 0.55 ppm | PASS 10.50 % |
| 99.99999 | 99.99999 | 99.9999575 | 2.73 ppm | 99.999662 | 100.00032 | -0.33 ppm | 0.55 ppm | PASS 9.92 % |
| 90.00000 | 90.00000 | 89.9999727 | 2.73 ppm | 89.999705 | 90.000295 | -0.30 ppm | 0.55 ppm | PASS 9.24 % |
| 88.88888 | 88.88888 | 88.8888572 | 2.73 ppm | 88.888588 | 88.889172 | -0.26 ppm | 0.55 ppm | PASS 7.81 % |
| 80.00000 | 80.00000 | 79.9999846 | 2.73 ppm | 79.999738 | 80.000262 | -0.19 ppm | 0.55 ppm | PASS 5.88 % |
| 77.77777 | 77.77777 | 77.7777594 | 2.73 ppm | 77.777515 | 77.778025 | -0.14 ppm | 0.55 ppm | PASS 4.15 % |
| 70.00000 | 70.00000 | 69.9999932 | 2.73 ppm | 69.99977 | 70.00023 | -0.10 ppm | 0.55 ppm | PASS 2.95 % |
| 66.66666 | 66.66666 | 66.6666540 | 2.73 ppm | 66.666441 | 66.666879 | -0.09 ppm | 0.55 ppm | PASS 2.74 % |
| 60.00000 | 60.00000 | 59.9999908 | 2.73 ppm | 59.999803 | 60.000197 | -0.15 ppm | 0.55 ppm | PASS 4.66 % |
| 55.55555 | 55.55555 | 55.5555435 | 2.73 ppm | 55.555368 | 55.555732 | -0.12 ppm | 0.55 ppm | PASS 3.57 % |
| 50.00000 | 50.00000 | 49.9999919 | 2.73 ppm | 49.999836 | 50.000164 | -0.16 ppm | 0.55 ppm | PASS 4.94 % |
| 44.44444 | 44.44444 | 44.4444366 | 2.73 ppm | 44.444294 | 44.444586 | -0.08 ppm | 0.55 ppm | PASS 2.31 % |
| 40.00000 | 40.00000 | 39.9999987 | 2.73 ppm | 39.999869 | 40.000131 | -0.03 ppm | 0.55 ppm | PASS 0.98 % |
| 33.33333 | 33.33333 | 33.3333255 | 2.73 ppm | 33.333221 | 33.333439 | -0.13 ppm | 0.55 ppm | PASS 4.08 % |
| 30.00000 | 30.00000 | 29.9999975 | 2.73 ppm | 29.999902 | 30.000098 | -0.08 ppm | 0.55 ppm | PASS 2.52 % |
| 22.22222 | 22.22222 | 22.2222203 | 2.73 ppm | 22.222147 | 22.222293 | 0.01 ppm | 0.55 ppm | PASS 0.42 % |
| 20.00000 | 20.00000 | 19.9999996 | 2.73 ppm | 19.999934 | 20.000066 | -0.02 ppm | 0.55 ppm | PASS 0.54 % |
| 11.11111 | 11.11111 | 11.1111058 | 2.73 ppm | 11.111075 | 11.111147 | -0.47 ppm | 0.55 ppm | PASS 14.38 % |
| 10.00000 | 10.00000 | 9.9999917 | 3.86 ppm | 9.999959 | 10.000044 | -0.83 ppm | 0.55 ppm | PASS 18.90 % |
| 9.87654 | 9.87654 | 9.8765388 | 7.27 ppm | 9.8764658 | 9.8766202 | -0.43 ppm | 0.55 ppm | PASS 5.46 % |
| -9.87654 | -9.87654 | -9.8765328 | 7.27 ppm | -9.8766202 | -9.8764658 | -1.03 ppm | 0.55 ppm | PASS 13.17 % |
| -10.00000 | -10.00000 | -9.9999906 | 3.86 ppm | -10.000044 | -9.999959 | -0.94 ppm | 0.55 ppm | PASS 21.31 % |
| -11.11111 | -11.11111 | -11.1111099 | 2.73 ppm | -11.111147 | -11.111075 | -0.10 ppm | 0.55 ppm | PASS 3.14 % |
| -20.00000 | -20.00000 | -20.0000003 | 2.73 ppm | -20.000066 | -19.999934 | 0.02 ppm | 0.55 ppm | PASS 0.47 % |
| -22.22222 | -22.22222 | -22.2222210 | 2.73 ppm | -22.222293 | -22.222147 | 0.05 ppm | 0.55 ppm | PASS 1.40 % |
| -30.00000 | -30.00000 | -30.0000036 | 2.73 ppm | -30.000098 | -29.999902 | 0.12 ppm | 0.55 ppm | PASS 3.66 % |
| -33.33333 | -33.33333 | -33.3333348 | 2.73 ppm | -33.333439 | -33.333221 | 0.14 ppm | 0.55 ppm | PASS 4.40 % |
| -40.00000 | -40.00000 | -40.0000019 | 2.73 ppm | -40.000131 | -39.999869 | 0.05 ppm | 0.55 ppm | PASS 1.47 % |
| -44.44444 | -44.44444 | -44.4444374 | 2.73 ppm | -44.444586 | -44.444294 | -0.06 ppm | 0.55 ppm | PASS 1.82 % |
| -50.00000 | -50.00000 | -50.0000003 | 2.73 ppm | -50.000164 | -49.999836 | 0.01 ppm | 0.55 ppm | PASS 0.20 % |
| -55.55555 | -55.55555 | -55.5555522 | 2.73 ppm | -55.555732 | -55.555368 | 0.04 ppm | 0.55 ppm | PASS 1.22 % |
| -60.00000 | -60.00000 | -59.9999934 | 2.73 ppm | -60.000197 | -59.999803 | -0.11 ppm | 0.55 ppm | PASS 3.35 % |
| -66.66666 | -66.66666 | -66.6666566 | 2.73 ppm | -66.666879 | -66.666441 | -0.05 ppm | 0.55 ppm | PASS 1.58 % |
| -70.00000 | -70.00000 | -69.9999964 | 2.73 ppm | -70.00023 | -69.99977 | -0.05 ppm | 0.55 ppm | PASS 1.55 % |
| -77.77777 | -77.77777 | -77.7777667 | 2.73 ppm | -77.778025 | -77.777515 | -0.04 ppm | 0.55 ppm | PASS 1.31 % |
| -80.00000 | -80.00000 | -79.9999971 | 2.73 ppm | -80.000262 | -79.999738 | -0.04 ppm | 0.55 ppm | PASS 1.10 % |
| -88.88888 | -88.88888 | -88.8888738 | 2.73 ppm | -88.889172 | -88.888588 | -0.07 ppm | 0.55 ppm | PASS 2.13 % |
| -90.00000 | -90.00000 | -89.9999940 | 2.73 ppm | -90.000295 | -89.999705 | -0.07 ppm | 0.55 ppm | PASS 2.03 % |
| -99.99999 | -99.99999 | -99.9999807 | 2.73 ppm | -100.00032 | -99.999662 | -0.09 ppm | 0.55 ppm | PASS 2.84 % |

| | | | | | | | | |
|------------|------------|---------------------|----------|------------|------------|-----------|----------|-------------|
| -100.00000 | -100.00000 | -99.9999878 | 2.73 ppm | -100.00033 | -99.999672 | -0.12 ppm | 0.55 ppm | PASS 3.71 % |
| -100.10101 | -100.10101 | -100.1010043 | 2.73 ppm | -100.10134 | -100.10068 | -0.06 ppm | 0.55 ppm | PASS 2.76 % |
| -100.99999 | -100.99999 | -100.9999797 | 2.73 ppm | -101.00032 | -100.99966 | -0.10 ppm | 0.55 ppm | PASS 4.93 % |

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 | 0.9998039 | 0.99979173 | 27.0 ppm | 9.9976891E-01 | 9.9983889E-01 | -12.168 ppm | 8.0 ppm | PASS 34.77 % |
| 1.9 Ω | 1.8998703 | 1.8998365 | 20.0 ppm | 1.8998171E+00 | 1.8999235E+00 | -17.793 ppm | 8.0 ppm | PASS 63.55 % |
| 10 Ω | 10.00029 | 10.000284 | 4.0 ppm | 1.0000170E+01 | 1.0000410E+01 | -0.567 ppm | 8.0 ppm | PASS 4.73 % |
| 19 Ω | 18.999925 | 18.999993 | 3.5 ppm | 1.8999745E+01 | 1.9000105E+01 | 3.565 ppm | 6.0 ppm | PASS 37.53 % |
| 100 Ω | 100.00301 | 100.00326 | 1.6 ppm | 1.0000225E+02 | 1.0000377E+02 | 2.508 ppm | 6.0 ppm | PASS 33.00 % |
| 190 Ω | 189.99756 | 189.99826 | 1.6 ppm | 1.8999684E+02 | 1.8999828E+02 | 3.706 ppm | 2.2 ppm | PASS 97.52 % |
| 1.0 kΩ | 1000.0085 | 1000.0097 | 1.6 ppm | 1.0000047E+03 | 1.0000123E+03 | 1.244 ppm | 2.2 ppm | PASS 32.75 % |
| 1.9 kΩ | 1900.0219 | 1900.0268 | 1.6 ppm | 1.9000147E+03 | 1.9000291E+03 | 2.575 ppm | 2.2 ppm | PASS 67.77 % |
| 10 kΩ | 9999.776 | 9999.7888 | 1.6 ppm | 9.9997380E+03 | 9.9998140E+03 | 1.277 ppm | 2.2 ppm | PASS 33.59 % |
| 19 kΩ | 18999.374 | 18999.39 | 1.6 ppm | 1.8999302E+04 | 1.8999446E+04 | 0.816 ppm | 2.2 ppm | PASS 21.48 % |
| 100 kΩ | 99994.7 | 99994.25 | 1.6 ppm | 9.9994320E+04 | 9.9995080E+04 | -4.500 ppm | 2.2 ppm | FAIL 118.42 % |
| 190 kΩ | 189988.59 | 189989.1 | 1.6 ppm | 1.8998620E+05 | 1.8999098E+05 | 2.659 ppm | 11.0 ppm | PASS 21.10 % |
| 1.0 MΩ | 999980.8 | 999975.16 | 2.0 ppm | 9.9996780E+05 | 9.9999380E+05 | -5.639 ppm | 11.0 ppm | PASS 43.37 % |
| 1.9 MΩ | 1899965.3 | 1899970.9 | 2.5 ppm | 1.8998561E+06 | 1.9000745E+06 | 2.928 ppm | 55.0 ppm | PASS 5.09 % |
| 10 MΩ | 9998990 | 9998458.3 | 8.0 ppm | 9.9983601E+06 | 9.9996199E+06 | -53.174 ppm | 55.0 ppm | PASS 84.40 % |
| 19 MΩ | 18998386 | 18999448 | 16.0 ppm | 1.8988393E+07 | 1.9008379E+07 | 55.879 ppm | 510.0 ppm | PASS 10.62 % |
| 100 MΩ | 1.0000693E+08 | 1.0001765E+08 | 40.0 ppm | 9.9951926E+07 | 1.0006193E+08 | 107.186 ppm | 510.0 ppm | PASS 19.49 % |
| 1 GΩ STD | 9.9551672E+08 | 1.0000000E+09 | 30000.0 ppm | 960663679.633 | 1030369760.37 | 4503.470 ppm | 5010.00 ppm | PASS 12.86 % |

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 0.0000003 Ω | 5.000e-05 Ω | -5e-05 | 5e-05 | N/A | 8.0000e-06 Ω | PASS |
| 100 Ω | Range -0.0000040 Ω | 5.500e-04 Ω | -0.00055 | 0.00055 | N/A | 2.2000e-06 Ω | PASS |
| 1.0 kΩ | Range -0.0000167 Ω | 5.500e-03 Ω | -0.0055 | 0.0055 | N/A | 2.2000e-06 Ω | PASS |
| 10 kΩ | Range 0.0001715 Ω | 5.500e-02 Ω | -0.055 | 0.055 | N/A | 2.2000e-06 Ω | PASS |
| 100 kΩ | Range -0.0023769 Ω | 5.500e-01 Ω | -0.55 | 0.55 | N/A | 2.2000e-06 Ω | PASS |
| 1.0 MΩ | Range -0.0356581 Ω | 5.500e+00 Ω | -5.5 | 5.5 | N/A | 2.2000e-06 Ω | PASS |
| 10 MΩ | Range -1.6750561 Ω | 5.500e+01 Ω | -55 | 55 | N/A | 2.2000e-06 Ω | PASS |
| 100 MΩ | Range 5.3789783 Ω | 5.500e+02 Ω | -550 | 550 | N/A | 2.2000e-06 Ω | PASS |
| 1 GΩ | Range -1.9652882 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 0.2200459 Ω | 5.000e-05 Ω | -5e-05 | 5e-05 | N/A | 8.0000e-06 Ω | FAIL |
| 100 Ω | Range 0.2187765 Ω | 5.500e-04 Ω | -0.00055 | 0.00055 | N/A | 2.2000e-06 Ω | FAIL |
| 1.0 kΩ | Range 0.2181383 Ω | 5.500e-03 Ω | -0.0055 | 0.0055 | N/A | 2.2000e-06 Ω | FAIL |
| 10 kΩ | Range 0.2162335 Ω | 5.500e-02 Ω | -0.055 | 0.055 | N/A | 2.2000e-06 Ω | FAIL |
| 100 kΩ | Range 0.2021450 Ω | 5.500e-01 Ω | -0.55 | 0.55 | N/A | 2.2000e-06 Ω | PASS |
| 1.0 MΩ | Range 0.3018494 Ω | 5.500e+00 Ω | -5.5 | 5.5 | N/A | 2.2000e-06 Ω | PASS |
| 10 MΩ | Range 1.9362551 Ω | 5.500e+01 Ω | -55 | 55 | N/A | 2.2000e-06 Ω | PASS |
| 100 MΩ | Range 0.4768080 Ω | 5.500e+02 Ω | -550 | 550 | N/A | 2.2000e-06 Ω | PASS |
| 1 GΩ | Range 0.4671337 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 | 1.0001167 | 129.09 | 0.99955091 | 1.00044909 | VAC | 116.746 ppm | 320.0 ppm | PASS 26.00 % |
| 1.0 VAC @ 1.0 MHz | 1.0 | 1.0110456 | 0.2500 % | 0.9874 | 1.0126 | VAC | 1.1046 % | 1.0100 % | PASS 87.66 % |
| 10 VAC @ 10 Hz | 10 | 9.9808803 | 73.18 | 9.9981682 | 10.0018318 | VAC | -1911.972 ppm | 110.0 ppm | FAIL 1043.77 % |
| 10 VAC @ 200 Hz | 10 | 10.000624 | 73.18 | 9.9983682 | 10.0016318 | VAC | 62.428 ppm | 90.0 ppm | PASS 38.26 % |
| 10 VAC @ 500 Hz | 10 | 10.000615 | 73.18 | 9.9983682 | 10.0016318 | VAC | 61.490 ppm | 90.0 ppm | PASS 37.68 % |
| 10 VAC @ 50.0 kHz | 10 | 10.000215 | 129.09 | 9.9955091 | 10.0044909 | VAC | 21.526 ppm | 320.0 ppm | PASS 4.79 % |
| 10 VAC @ 1.0 MHz | 10 | 10.093155 | 0.3000 % | 9.869 | 10.131 | VAC | 0.9315 % | 1.0100 % | PASS 71.11 % |

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 | 0.0099984621 | 312.27 | 0.009991 | 0.010009 | -153.789 ppm | 600.0 ppm | PASS 16.86 % |
| 0.01 V AC+DC @ 20 Hz | 0.0099982137 | 312.27 | 0.009991 | 0.010009 | -178.630 ppm | 600.0 ppm | PASS 19.58 % |
| 0.01 V AC+DC @ 40 Hz | 0.0099982133 | 312.27 | 0.009991 | 0.010009 | -178.670 ppm | 600.0 ppm | PASS 19.59 % |
| 0.01 V AC+DC @ 100 Hz | 0.009998092 | 312.27 | 0.009994 | 0.010006 | -190.796 ppm | 310.0 ppm | PASS 30.66 % |
| 0.01 V AC+DC @ 1.0 kHz | 0.0099980695 | 312.27 | 0.009994 | 0.010006 | -193.045 ppm | 310.0 ppm | PASS 31.02 % |
| 0.01 V AC+DC @ 10.0 kHz | 0.0099993795 | 312.27 | 0.009993 | 0.010007 | -62.049 ppm | 410.0 ppm | PASS 8.59 % |
| 0.01 V AC+DC @ 20.0 kHz | 0.0099981478 | 312.27 | 0.009993 | 0.010007 | -185.219 ppm | 410.0 ppm | PASS 25.64 % |
| 0.01 V AC+DC @ 50.0 kHz | 0.009996111 | 0.0312 % | 0.009986 | 0.010014 | -0.0389 % | 0.1110 % | PASS 27.34 % |
| 0.01 V AC+DC @ 100.0 kHz | 0.0099788426 | 0.0312 % | 0.009946 | 0.010054 | -0.2116 % | 0.5110 % | PASS 39.02 % |
| 0.01 V AC+DC @ 300.0 kHz | 0.0098289684 | 0.0447 % | 0.009594 | 0.010406 | -1.7103 % | 4.0200 % | PASS 42.08 % |
| 0.01 V AC+DC @ 500.0 kHz | 0.0096057827 | 0.0773 % | 0.006787 | 0.013213 | -3.9422 % | 32.0500 % | PASS 12.27 % |
| 0.01 V AC+DC @ 1.0 MHz | 0.0087313657 | 0.1500 % | 0.006780 | 0.013220 | -12.6863 % | 32.0500 % | PASS 39.40 % |
| 0.1 V AC+DC @ 10 Hz | 0.099995686 | 1500 | 0.099839 | 0.100161 | -43.140 ppm | 110.0 ppm | PASS 2.68 % |
| 0.1 V AC+DC @ 20 Hz | 0.099993515 | 2500 | 0.099739 | 0.100261 | -64.853 ppm | 110.0 ppm | PASS 2.48 % |
| 0.1 V AC+DC @ 40 Hz | 0.099994406 | 4000 | 0.099589 | 0.100411 | -55.941 ppm | 110.0 ppm | PASS 1.36 % |
| 0.1 V AC+DC @ 100 Hz | 0.099993306 | 121.36 | 0.099979 | 0.100021 | -66.935 ppm | 90.0 ppm | PASS 31.67 % |
| 0.1 V AC+DC @ 1.0 kHz | 0.099994739 | 121.36 | 0.099979 | 0.100021 | -52.613 ppm | 90.0 ppm | PASS 24.89 % |
| 0.1 V AC+DC @ 10.0 kHz | 0.099994941 | 121.36 | 0.099972 | 0.100028 | -50.587 ppm | 160.0 ppm | PASS 17.98 % |
| 0.1 V AC+DC @ 20.0 kHz | 0.099990717 | 121.36 | 0.099972 | 0.100028 | -92.835 ppm | 160.0 ppm | PASS 32.99 % |
| 0.1 V AC+DC @ 50.0 kHz | 0.09998766 | 121.36 | 0.099956 | 0.100044 | -123.405 ppm | 320.0 ppm | PASS 27.96 % |
| 0.1 V AC+DC @ 100.0 kHz | 0.099951968 | 121.36 | 0.099906 | 0.100094 | -480.321 ppm | 820.0 ppm | PASS 51.02 % |
| 0.1 V AC+DC @ 300.0 kHz | 0.099754074 | 0.0121 % | 0.099678 | 0.100322 | -0.2459 % | 0.3100 % | PASS 76.34 % |
| 0.1 V AC+DC @ 500.0 kHz | 0.099596213 | 0.0121 % | 0.098978 | 0.101022 | -0.4038 % | 1.0100 % | PASS 39.50 % |
| 0.1 V AC+DC @ 1.0 MHz | 0.099518509 | 0.0121 % | 0.098978 | 0.101022 | -0.4815 % | 1.0100 % | PASS 47.11 % |
| 1.0 V AC+DC @ 10 Hz | 1.0000074 | 256.36 | 0.999634 | 1.000366 | 7.353 ppm | 110.0 ppm | PASS 2.01 % |
| 1.0 V AC+DC @ 20 Hz | 0.9999935 | 590.91 | 0.999299 | 1.000701 | -6.500 ppm | 110.0 ppm | PASS 0.93 % |
| 1.0 V AC+DC @ 40 Hz | 0.99998653 | 963.64 | 0.998926 | 1.001074 | -13.474 ppm | 110.0 ppm | PASS 1.25 % |
| 1.0 V AC+DC @ 100 Hz | 0.99998205 | 963.64 | 0.998946 | 1.001054 | -17.948 ppm | 90.0 ppm | PASS 1.70 % |
| 1.0 V AC+DC @ 1.0 kHz | 0.99999757 | 1500 | 0.998410 | 1.001590 | -2.428 ppm | 90.0 ppm | PASS 0.15 % |
| 1.0 V AC+DC @ 10.0 kHz | 0.99996305 | 3000 | 0.996840 | 1.003160 | -36.948 ppm | 160.0 ppm | PASS 1.17 % |
| 1.0 V AC+DC @ 20.0 kHz | 0.99993552 | 49.55 | 0.999790 | 1.000210 | -64.480 ppm | 160.0 ppm | PASS 30.77 % |
| 1.0 V AC+DC @ 50.0 kHz | 1.0000013 | 49.55 | 0.999630 | 1.000370 | 1.338 ppm | 320.0 ppm | PASS 0.36 % |
| 1.0 V AC+DC @ 100.0 kHz | 1.0000435 | 49.55 | 0.999130 | 1.000870 | 43.469 ppm | 820.0 ppm | PASS 5.00 % |
| 1.0 V AC+DC @ 300.0 kHz | 1.0009224 | 0.0050 % | 0.996850 | 1.003150 | 0.0922 % | 0.3100 % | PASS 29.29 % |
| 1.0 V AC+DC @ 500.0 kHz | 1.0024352 | 0.0050 % | 0.989850 | 1.010150 | 0.2435 % | 1.0100 % | PASS 23.99 % |
| 1.0 V AC+DC @ 1.0 MHz | 1.0060495 | 0.0050 % | 0.989850 | 1.010150 | 0.6049 % | 1.0100 % | PASS 59.60 % |
| 10.0 V AC+DC @ 10 Hz | 10.000243 | 49.55 | 9.997105 | 10.002895 | 24.295 ppm | 240.0 ppm | PASS 8.39 % |
| 10.0 V AC+DC @ 20 Hz | 10.000144 | 49.55 | 9.997105 | 10.002895 | 14.431 ppm | 240.0 ppm | PASS 4.98 % |
| 10.0 V AC+DC @ 40 Hz | 10.000092 | 49.55 | 9.997105 | 10.002895 | 9.217 ppm | 240.0 ppm | PASS 3.18 % |
| 10.0 V AC+DC @ 100 Hz | 10.000032 | 85.45 | 9.996945 | 10.003054 | 3.156 ppm | 220.0 ppm | PASS 1.03 % |
| 10.0 V AC+DC @ 1.0 kHz | 10.000175 | 138.18 | 9.996418 | 10.003582 | 17.540 ppm | 220.0 ppm | PASS 4.90 % |
| 10.0 V AC+DC @ 10.0 kHz | 9.9995269 | 425.45 | 9.993545 | 10.006455 | -47.312 ppm | 220.0 ppm | PASS 7.33 % |
| 10.0 V AC+DC @ 20.0 kHz | 9.9994244 | 425.45 | 9.993545 | 10.006455 | -57.563 ppm | 220.0 ppm | PASS 8.92 % |
| 10.0 V AC+DC @ 50.0 kHz | 9.9992515 | 1100 | 9.985300 | 10.014700 | -74.846 ppm | 370.0 ppm | PASS 5.09 % |
| 10.0 V AC+DC @ 100.0 kHz | 9.9961786 | 0.1800 % | 9.969800 | 10.030200 | -0.0382 % | 0.1220 % | PASS 12.65 % |
| 10.0 V AC+DC @ 300.0 kHz | 9.9850365 | 0.0048 % | 9.958518 | 10.041482 | -0.1496 % | 0.4100 % | PASS 36.07 % |
| 10.0 V AC+DC @ 500.0 kHz | 9.993474 | 0.0048 % | 9.848518 | 10.151482 | -0.0653 % | 1.5100 % | PASS 4.31 % |
| 10.0 V AC+DC @ 1.0 MHz | 10.049292 | 0.0048 % | 9.848518 | 10.151482 | 0.4929 % | 1.5100 % | PASS 32.54 % |
| 100.0 V AC+DC @ 1.0 kHz | 99.999779 | 48.18 | 99.953182 | 100.046818 | -2.209 ppm | 420.0 ppm | PASS 0.47 % |
| 100.0 V AC+DC @ 10.0 kHz | 99.997126 | 48.18 | 99.933182 | 100.066818 | -28.740 ppm | 620.0 ppm | PASS 4.30 % |
| 100.0 V AC+DC @ 20.0 kHz | 99.994406 | 48.18 | 99.933182 | 100.066818 | -55.943 ppm | 620.0 ppm | PASS 8.37 % |
| 100.0 V AC+DC @ 50.0 kHz | 99.991302 | 0.0048 % | 99.873182 | 100.126818 | -0.0087 % | 0.1220 % | PASS 6.86 % |
| 100.0 V AC+DC @ 100.0 kHz | 99.956295 | 0.0048 % | 99.693182 | 100.306818 | -0.0437 % | 0.3020 % | PASS 14.24 % |
| 700.0 V AC+DC @ 1.0 kHz | 700.05557 | 48.18 | 699.672274 | 700.327726 | 79.393 ppm | 420.0 ppm | PASS 16.66 % |

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 | -8.2520357E-13 | 71.82 ppm | 0 | 0 | Z-check | 410 ppm | INFO |
| 50 nADC | 5E-08 | 5.0036128E-08 | 71.82 ppm | 4.997591E-08 | 5.002409E-08 | 722.557 ppm | 410 ppm | INFO |
| 100 nADC | 1E-07 | 1.0004296E-07 | 71.82 ppm | 9.995182E-08 | 1.000482E-07 | 429.624 ppm | 410 ppm | PASS 89.17 % |
| -100 nADC | -1E-07 | -9.9905769E-08 | 71.82 ppm | -1.000482E-07 | -9.995182E-08 | -942.311 ppm | 410 ppm | FAIL 195.57 % |
| -50 nADC | -5E-08 | -4.9903316E-08 | 71.82 ppm | -5.002409E-08 | -4.997591E-08 | -1933.679 ppm | 410 ppm | INFO |
| Zero µADC | 0 | 4.694595E-11 | 71.82 ppm | 0 | 0 | Z-check | 410 ppm | INFO |
| 0.5 µADC | 5E-07 | 5.0005755E-07 | 71.82 ppm | 4.999391E-07 | 5.000609E-07 | 115.093 ppm | 50 ppm | PASS 94.48 % |
| 1.0 µADC | 1E-06 | 1.0000625E-06 | 71.82 ppm | 9.998782E-07 | 1.000122E-06 | 62.524 ppm | 50 ppm | PASS 51.32 % |
| -1.0 µADC | -1E-06 | -9.9991191E-07 | 71.82 ppm | -1.000122E-06 | -9.998782E-07 | -88.093 ppm | 50 ppm | PASS 72.31 % |
| -0.5 µADC | -5E-07 | -4.9992566E-07 | 71.82 ppm | -5.000609E-07 | -4.999391E-07 | -148.686 ppm | 50 ppm | FAIL 122.05 % |
| Zero 00 µADC | 0 | 2.296666E-11 | 71.82 ppm | 0 | 0 | Z-check | 410 ppm | INFO |
| 5 µADC | 5E-06 | 5.0000671E-06 | 71.82 ppm | 4.999556E-06 | 5.000444E-06 | 13.416 ppm | 17 ppm | PASS 15.11 % |
| 10 µADC | 1E-05 | 1.0000088E-05 | 71.82 ppm | 9.999112E-06 | 1.000089E-05 | 8.801 ppm | 17 ppm | PASS 9.91 % |
| -10 µADC | -1E-05 | -9.999751E-06 | 71.82 ppm | -1.000089E-05 | -9.999112E-06 | -2.493 ppm | 17 ppm | PASS 2.81 % |
| -5 µADC | -5E-06 | -4.9999309E-06 | 71.82 ppm | -5.000444E-06 | -4.999556E-06 | -13.827 ppm | 17 ppm | PASS 15.57 % |
| Zero 000 µADC | 0 | 3.7789426E-11 | 71.82 ppm | 0 | 0 | Z-check | 410 ppm | INFO |
| 50 µADC | 5E-05 | 5.0000096E-05 | 71.82 ppm | 4.999561E-05 | 5.000439E-05 | 1.924 ppm | 16 ppm | PASS 2.19 % |
| 100 µADC | 0.0001 | 0.0001000018 | 71.82 ppm | 9.999122E-05 | 0.0001000088 | 1.819 ppm | 16 ppm | PASS 2.07 % |
| -100 µADC | -0.0001 | -9.999971E-05 | 71.82 ppm | -0.0001000088 | -9.999122E-05 | -0.292 ppm | 16 ppm | PASS 0.33 % |
| -50 µADC | -5E-05 | -4.999967E-05 | 71.82 ppm | -5.000439E-05 | -4.999561E-05 | -0.655 ppm | 16 ppm | PASS 0.75 % |
| Zero mADC | 0 | 1.1721039E-10 | 33.64 ppm | 0 | 0 | Z-check | 410 ppm | INFO |
| 0.5 mADC | 0.0005 | 0.00049999935 | 33.64 ppm | 0.0004999762 | 0.0005000238 | -1.292 ppm | 14 ppm | PASS 2.71 % |
| 1.0 mADC | 0.001 | 0.00099999938 | 33.64 ppm | 0.0009999524 | 0.001000048 | -0.625 ppm | 14 ppm | PASS 1.31 % |
| -1.0 mADC | -0.001 | -0.00099999908 | 33.64 ppm | -0.001000048 | -0.0009999524 | -0.921 ppm | 14 ppm | PASS 1.93 % |
| -0.5 mADC | -0.0005 | -0.00049999915 | 33.64 ppm | -0.0005000238 | -0.0004999762 | -1.703 ppm | 14 ppm | PASS 3.57 % |
| Zero 00 mADC | 0 | 7.1871995E-11 | 32.27 ppm | 0 | 0 | Z-check | 410 ppm | INFO |
| 5 mADC | 0.005 | 0.0049999904 | 32.27 ppm | 0.004999769 | 0.005000231 | -1.922 ppm | 14 ppm | PASS 4.15 % |
| 10 mADC | 0.01 | 0.0099999864 | 32.27 ppm | 0.009999537 | 0.01000046 | -1.356 ppm | 14 ppm | PASS 2.93 % |
| -10 mADC | -0.01 | -0.0099999847 | 32.27 ppm | -0.01000046 | -0.009999537 | -1.531 ppm | 14 ppm | PASS 3.31 % |
| -5 mADC | -0.005 | -0.0049999876 | 32.27 ppm | -0.005000231 | -0.004999769 | -2.471 ppm | 14 ppm | PASS 5.34 % |
| Zero 000 mADC | 0 | 8.8746257E-11 | 53.32 ppm | 0 | 0 | Z-check | 410 ppm | INFO |
| 50 mADC | 0.05 | 0.050000432 | 53.32 ppm | 0.04999588 | 0.05000412 | 8.648 ppm | 29 ppm | PASS 10.51 % |
| 100 mADC | 0.1 | 0.099999972 | 53.32 ppm | 0.09999177 | 0.1000082 | -0.281 ppm | 29 ppm | PASS 0.34 % |
| -100 mADC | -0.1 | -0.099999652 | 53.32 ppm | -0.1000082 | -0.09999177 | -3.481 ppm | 29 ppm | PASS 4.23 % |
| -50 mADC | -0.05 | -0.050000002 | 53.32 ppm | -0.05000412 | -0.04999588 | 0.047 ppm | 29 ppm | PASS 0.06 % |
| Zero ADC | 0 | 9.5554551E-11 | 115.22 ppm | 0 | 0 | Z-check | 410 ppm | INFO |
| 0.5 ADC | 0.5 | 0.50001508 | 115.22 ppm | 0.4998874 | 0.5001126 | 30.152 ppm | 110 ppm | PASS 13.39 % |
| 1.0 ADC | 1 | 1.0000212 | 115.22 ppm | 0.9997748 | 1.000225 | 21.160 ppm | 110 ppm | PASS 9.40 % |
| -1.0 ADC | -1 | -1.0000188 | 115.22 ppm | -1.000225 | -0.9997748 | 18.845 ppm | 110 ppm | PASS 8.37 % |
| -0.5 ADC | -0.5 | -0.50000975 | 115.22 ppm | -0.5001126 | -0.4998874 | 19.496 ppm | 110 ppm | PASS 8.66 % |

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 | 1.0013818E-05 | 0.0165 % | 9.9893455e-06 | 1.00106545e-05 | 1381.819 ppm | 0.0900 % | INFO |
| 100 µA AC @ 50 Hz | 0.0001 | 9.9989921E-05 | 0.0165 % | 9.9893455e-05 | 0.000100106545 | -100.794 ppm | 0.0900 % | PASS 9.46 % |
| 1.0 mA AC @ 50 Hz | 0.001 | 0.0010000208 | 0.0165 % | 0.00099903455 | 0.00100096545 | 20.765 ppm | 0.0800 % | PASS 2.15 % |
| 10 mA AC @ 50 Hz | 0.01 | 0.010000233 | 0.0165 % | 0.0099903455 | 0.0100096545 | 23.265 ppm | 0.0800 % | PASS 2.41 % |
| 100 mA AC @ 50 Hz | 0.1 | 0.10000621 | 0.0138 % | 0.099906182 | 0.100093818 | 62.110 ppm | 0.0800 % | PASS 6.62 % |
| 1.0 A AC @ 50 Hz | 1.0 | 1.0000483 | 0.0138 % | 0.99886182 | 1.00113818 | 0.0048 % | 0.1000 % | PASS 4.24 % |
| 10 µA AC @ 60 Hz | 1e-05 | 1.0012553E-05 | 0.0138 % | 9.9896182e-06 | 1.00103818e-05 | 1255.294 ppm | 0.0900 % | INFO |
| 100 µA AC @ 60 Hz | 0.0001 | 9.9991004E-05 | 0.0138 % | 9.9896182e-05 | 0.000100103818 | -89.962 ppm | 0.0900 % | PASS 8.67 % |
| 1.0 mA AC @ 60 Hz | 0.001 | 0.0010000459 | 0.0134 % | 0.00099906636 | 0.00100093364 | 45.948 ppm | 0.0800 % | PASS 4.92 % |
| 10 mA AC @ 60 Hz | 0.01 | 0.01000032 | 0.0134 % | 0.0099906636 | 0.0100093364 | 31.975 ppm | 0.0800 % | PASS 3.42 % |
| 100 mA AC @ 60 Hz | 0.1 | 0.10000831 | 0.0308 % | 0.099889182 | 0.100110818 | 83.133 ppm | 0.0800 % | PASS 7.50 % |
| 1.0 A AC @ 60 Hz | 1.0 | 1.0000722 | 0.0308 % | 0.99869182 | 1.00130818 | 0.0072 % | 0.1000 % | PASS 5.52 % |
| 10 µA AC @ 1.0 kHz | 1e-05 | 1.0013063E-05 | 0.0165 % | 9.9893455e-06 | 1.00106545e-05 | 1306.310 ppm | 0.0900 % | INFO |
| 100 µA AC @ 1.0 kHz | 0.0001 | 9.9982096E-05 | 0.0165 % | 9.9893455e-05 | 0.000100106545 | -179.039 ppm | 0.0900 % | PASS 16.80 % |
| 1.0 mA AC @ 1.0 kHz | 0.001 | 0.0010000989 | 0.0165 % | 0.00099933455 | 0.00100066545 | 98.947 ppm | 0.0500 % | PASS 14.87 % |
| 10 mA AC @ 1.0 kHz | 0.01 | 0.010001058 | 0.0165 % | 0.0099933455 | 0.0100066545 | 105.817 ppm | 0.0500 % | PASS 15.90 % |
| 100 mA AC @ 1.0 kHz | 0.1 | 0.10001542 | 0.0138 % | 0.099936182 | 0.100063818 | 154.192 ppm | 0.0500 % | PASS 24.16 % |
| 1.0 A AC @ 1.0 kHz | 1.0 | 1.0000828 | 0.0138 % | 0.99866182 | 1.00133818 | 0.0083 % | 0.1200 % | PASS 6.19 % |

Test completed

| | |
|------------------------|---------------------------------------|
| Test date | 01 August 2018 10:53 |
| UUT Internal TEMP? | 37.0 |
| Destructive overloads? | 287, DESTRUCTIVE OVERLOADS valid 2941 |

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

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