

Manufacturer	Datron Instruments	Calibration date	May 19 2019
Model Number	1281	Ambient Temperature	0.00 °C
Serial	MM-GPIB16	Relative Humidity	0.00 %
ID Number	25663-9	Pressure	0.00
Notes	Test front V/R ports	Test type	First

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

Reference standard	Mfg	Model	Options	Serial / Unc	CEID	Calibration date	Due date
CAL MFC	Fluke	5700A	/03 WB	XXX	MC01	10/09/2018	10/09/2019
DUT MFC	Fluke	5700B	/03 WB	XXX	MC02	03/07/2019	04/07/2019
DC STD	Fluke	732B-3	9.9999323 VDC	±0.55 ppm	SV03	08/20/2016	08/20/2017
DC STD	Fluke	732B-3	9.9999288 VDC	±0.56 ppm	SV03	11/03/2017	11/03/2018
STDR	IET	1 Ohm	0.99997483	±0.17 ppm	SM02	11/03/2017	11/30/2018
STDR	ESI	SR104	10000.0530 KΩ	±0.15 ppm	SM01	10/30/2017	10/30/2018

MFC last calibrated	73.0 days ago	MFC since DCV ZERO	47.0 days ago
MFC since WBFLAT	0.0 days ago	MFC since WBGAIN	0.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2019-03-06 00:00:00
MFC Calibrate date Zero	2019-04-01 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	1988-10-01 00:00:00	CAL CONST 6.5V reference voltage	6.55013026055
CAL CONST 13V reference voltage	13.0979736088	CAL CONST 22V range positive zero	398.17869
CAL CONST 22V range negative zero	398.17808	CAL CONST DAC Linearity	-0.306704359243
CAL CONST 10KOHM true output resistance	10000.4014388	CAL CONST 10KOHM standard resistance	10000.1317094
CAL CONST, Zero calibration temperature	25.0	CAL CONST, All calibration temp	25.0

This note is test MFC dummy text block for further use.
Calibrator was warmed up >8 hours.

Meter Info	Datron Instruments,1281,25663-9 ,890144-03.12	Last calibration date	N/A
Next calibration date	N/A	Test date	19 May 2019 04:08

Service information

Confidence test result?
0.0
Options
1,1,1,1,0,1,0
Reference
Direct MFC test, verification 5720MMB
DUT Condition
Test after reassembly

Test procedure : \$Id: d1281.py | Rev 1318 | 2019/05/19 08:09:04 clu \$

Source procedure : \$Id: f5700a.py | Rev 1198 | 2019/03/11 16:13:03 clu \$

Main DC Voltage ranges performance test.

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

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

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

Test Description	Expected Value	Measured Value	Measurement Uncertainty	Lower Limit	Upper Limit	Deviation	DUT Spec	Test Status
Short 0 mVDC	0.000000E+00	1.76 μV	0.75 μ V	-0.910 μ V	0.910 μ V	N/A	0.16 μ V	FAIL
Short 0.0 VDC	0.000000E+00	1.87 μV	0.75 μ V	-0.900 μ V	0.900 μ V	N/A	0.15 μ V	FAIL
Short 00.0 VDC	0.000000E+00	0.90 μV	0.75 μ V	-1.070 μ V	1.070 μ V	N/A	0.32 μ V	PASS
Short 000.0 VDC	0.000000E+00	15.00 μV	0.75 μ V	-14.750 μ V	14.750 μ V	N/A	14.00 μ V	FAIL
Short 0000.0 VDC	0.000000E+00	-70.00 μV	0.75 μ V	-41.750 μ V	41.750 μ V	N/A	41.00 μ V	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	0.099901605	7.27 ppm	0.099998723	0.10000128	-983.950 ppm	5.50 ppm	FAIL 7705.17 %
-0.1 VDC (0.10 Range)	-0.1000000	-0.10009787	7.27 ppm	-0.10000128	-0.099998723	978.740 ppm	5.50 ppm	FAIL 7664.37 %
0.1 VDC (1.00 Range)	0.1000000	0.0999015	7.27 ppm	0.099999093	0.10000091	-985.000 ppm	1.80 ppm	FAIL 10859.98 %
0.2 VDC (1.00 Range)	0.2000000	0.19990137	3.86 ppm	0.19999887	0.20000113	-493.150 ppm	1.80 ppm	FAIL 8712.90 %
1.0 VDC (1.00 Range)	1.0000000	0.99990322	3.86 ppm	0.99999434	1.0000057	-96.780 ppm	1.80 ppm	FAIL 1709.89 %
-0.1 VDC (1.00 Range)	-0.1000000	-0.10009792	7.27 ppm	-0.10000091	-0.099999093	979.200 ppm	1.80 ppm	FAIL 10796.03 %
-0.2 VDC (1.00 Range)	-0.2000000	-0.20009775	3.86 ppm	-0.20000113	-0.19999887	488.750 ppm	1.80 ppm	FAIL 8635.16 %
-1.0 VDC (1.00 Range)	-1.0000000	-1.0000988	3.86 ppm	-1.0000057	-0.99999434	98.750 ppm	1.80 ppm	FAIL 1744.70 %
1.0 VDC (10.00 Range)	1.0000000	0.9998996	3.86 ppm	0.99999559	1.0000044	-100.400 ppm	0.55 ppm	FAIL 2276.64 %
2.0 VDC (10.00 Range)	2.0000000	1.9998987	2.77 ppm	1.9999934	2.0000066	-50.650 ppm	0.55 ppm	FAIL 1525.60 %
10.0 VDC (10.00 Range)	10.0000000	9.9998825	2.73 ppm	9.9999672	10.000033	-11.755 ppm	0.55 ppm	FAIL 358.38 %
-1.0 VDC (10.00 Range)	-1.0000000	-1.0000964	3.86 ppm	-1.0000044	-0.99999559	96.400 ppm	0.55 ppm	FAIL 2185.94 %
-2.0 VDC (10.00 Range)	-2.0000000	-2.0000953	2.77 ppm	-2.0000066	-1.9999934	47.650 ppm	0.55 ppm	FAIL 1435.24 %
-10.0 VDC (10.00 Range)	-10.0000000	-10.000077	2.73 ppm	-10.000033	-9.9999672	7.750 ppm	0.55 ppm	FAIL 236.28 %
10 VDC (100.00 Range)	10.0000000	9.999532	2.77 ppm	9.9999443	10.000056	-46.800 ppm	2.80 ppm	FAIL 840.22 %
20 VDC (100.00 Range)	20.0000000	19.999055	3.73 ppm	19.999869	20.000131	-47.250 ppm	2.80 ppm	FAIL 723.58 %
100 VDC (100.00 Range)	100.0000000	99.995326	3.73 ppm	99.999347	100.00065	-46.740 ppm	2.80 ppm	FAIL 715.77 %
-10 VDC (100.00 Range)	-10.0000000	-9.999494	2.77 ppm	-10.000056	-9.9999443	-50.600 ppm	2.80 ppm	FAIL 908.44 %
-20 VDC (100.00 Range)	-20.0000000	-19.999019	3.73 ppm	-20.000131	-19.999869	-49.050 ppm	2.80 ppm	FAIL 751.15 %
-100 VDC (100.00 Range)	-100.0000000	-99.995327	3.73 ppm	-100.00065	-99.999347	-46.730 ppm	2.80 ppm	FAIL 715.62 %
100 VDC (1000.00 Range)	100.0000000	99.995035	3.73 ppm	99.999367	100.00063	-49.650 ppm	2.60 ppm	FAIL 784.36 %
200 VDC (1000.00 Range)	200.0000000	199.99009	3.73 ppm	199.99873	200.00127	-49.550 ppm	2.60 ppm	FAIL 782.78 %
1000 VDC (1000.00 Range)	1000.0000000	999.95508	5.45 ppm	999.97995	1000.02	-44.920 ppm	2.60 ppm	FAIL 224.04 %
-100 VDC (1000.00 Range)	-100.0000000	-99.9954	3.73 ppm	-100.00063	-99.999367	-46.000 ppm	2.60 ppm	FAIL 726.70 %
-200 VDC (1000.00 Range)	-200.0000000	-199.99058	3.73 ppm	-200.00127	-199.99873	-47.100 ppm	2.60 ppm	FAIL 744.08 %
-1000 VDC (1000.00 Range)	-1000.0000000	-999.95537	5.45 ppm	-1000.02	-999.97995	-44.630 ppm	2.60 ppm	FAIL 1129.87 %

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	1.1000026	2.73 ppm	1.099996	1.100004	2.49 ppm	0.55 ppm	PASS 75.80 %
0.9999999	0.9999999	1.00000274	2.73 ppm	0.9999966	1.000003	2.84 ppm	0.55 ppm	PASS 86.59 %
0.9000000	0.9000000	0.90000289	2.73 ppm	0.899997	0.900003	3.21 ppm	0.55 ppm	PASS 97.90 %
0.8888888	0.8888888	0.88889162	2.73 ppm	0.8888859	0.8888917	3.17 ppm	0.55 ppm	PASS 96.55 %
0.8000000	0.8000000	0.8000027	2.73 ppm	0.7999974	0.8000026	3.42 ppm	0.55 ppm	FAIL 104.23 %
0.7777777	0.7777777	0.7777805	2.73 ppm	0.7777751	0.7777803	3.58 ppm	0.55 ppm	FAIL 109.17 %
0.7000000	0.7000000	0.7000026	2.73 ppm	0.6999977	0.7000023	3.67 ppm	0.55 ppm	FAIL 111.93 %
0.6666666	0.6666666	0.6666691	2.73 ppm	0.6666644	0.6666688	3.76 ppm	0.55 ppm	FAIL 114.56 %
0.6000000	0.6000000	0.6000024	2.73 ppm	0.599998	0.600002	3.98 ppm	0.55 ppm	FAIL 121.19 %
0.5555555	0.5555555	0.5555579	2.73 ppm	0.5555537	0.5555573	4.26 ppm	0.55 ppm	FAIL 129.79 %
0.5000000	0.5000000	0.5000023	2.73 ppm	0.4999984	0.5000016	4.60 ppm	0.55 ppm	FAIL 140.24 %
0.4444444	0.4444444	0.4444467	2.73 ppm	0.4444429	0.4444459	5.15 ppm	0.55 ppm	FAIL 157.09 %
0.4000000	0.4000000	0.4000023	2.73 ppm	0.3999987	0.4000013	5.67 ppm	0.55 ppm	FAIL 173.02 %
0.3333333	0.3333333	0.3333355	2.73 ppm	0.3333322	0.3333344	6.65 ppm	0.55 ppm	FAIL 202.59 %
0.3000000	0.3000000	0.3000023	2.73 ppm	0.299999	0.300001	7.50 ppm	0.55 ppm	FAIL 228.66 %
0.2222222	0.2222222	0.2222243	2.73 ppm	0.2222215	0.2222229	9.38 ppm	0.55 ppm	FAIL 286.05 %
0.2000000	0.2000000	0.2000020	2.73 ppm	0.1999993	0.2000007	10.20 ppm	0.55 ppm	FAIL 310.98 %
0.1234567	0.1234567	0.1234588	2.73 ppm	0.1234563	0.1234571	16.65 ppm	0.55 ppm	FAIL 507.49 %
0.1111111	0.1111111	0.1111132	2.73 ppm	0.1111107	0.1111115	19.04 ppm	0.55 ppm	FAIL 580.34 %
0.1000000	0.1000000	0.1000020	2.73 ppm	0.0999967	0.1000003	20.45 ppm	0.55 ppm	FAIL 623.48 %
0.0987654	0.0987654	0.0987674	3.86 ppm	0.09876496	0.09876584	20.25 ppm	0.55 ppm	FAIL 459.18 %
0.0111111	0.0111111	0.0111130	7.27 ppm	0.01111101	0.01111119	169.20 ppm	0.55 ppm	FAIL 2163.69 %
-0.0111111	-0.0111111	-0.0111092	7.27 ppm	-0.01111119	-0.01111101	-171.90 ppm	0.55 ppm	FAIL 2198.21 %
-0.0987654	-0.0987654	-0.0987635	3.86 ppm	-0.09876584	-0.09876496	-19.24 ppm	0.55 ppm	FAIL 436.22 %
-0.1000000	-0.1000000	-0.0999982	2.73 ppm	-0.1000003	-0.0999967	-18.20 ppm	0.55 ppm	FAIL 554.88 %
-0.1111111	-0.1111111	-0.1111092	2.73 ppm	-0.1111115	-0.1111107	-17.33 ppm	0.55 ppm	FAIL 528.20 %
-0.1234567	-0.1234567	-0.1234548	2.73 ppm	-0.1234571	-0.1234563	-15.80 ppm	0.55 ppm	FAIL 481.56 %
-0.2000000	-0.2000000	-0.1999982	2.73 ppm	-0.2000007	-0.1999993	-9.15 ppm	0.55 ppm	FAIL 278.96 %
-0.2222222	-0.2222222	-0.2222203	2.73 ppm	-0.2222229	-0.2222215	-8.75 ppm	0.55 ppm	FAIL 266.84 %
-0.3000000	-0.3000000	-0.2999980	2.73 ppm	-0.300001	-0.299999	-6.60 ppm	0.55 ppm	FAIL 201.22 %
-0.3333333	-0.3333333	-0.3333313	2.73 ppm	-0.3333344	-0.3333322	-5.90 ppm	0.55 ppm	FAIL 179.73 %
-0.4000000	-0.4000000	-0.3999981	2.73 ppm	-0.4000013	-0.3999987	-4.68 ppm	0.55 ppm	FAIL 142.53 %
-0.4444444	-0.4444444	-0.4444425	2.73 ppm	-0.4444459	-0.4444429	-4.25 ppm	0.55 ppm	FAIL 129.65 %
-0.5000000	-0.5000000	-0.4999981	2.73 ppm	-0.5000016	-0.4999984	-3.78 ppm	0.55 ppm	FAIL 115.24 %
-0.5555555	-0.5555555	-0.5555536	2.73 ppm	-0.5555573	-0.5555537	-3.39 ppm	0.55 ppm	FAIL 103.45 %
-0.6000000	-0.6000000	-0.59999819	2.73 ppm	-0.600002	-0.599998	-3.01 ppm	0.55 ppm	PASS 91.72 %
-0.6666666	-0.6666666	-0.66666482	2.73 ppm	-0.6666688	-0.6666644	-2.67 ppm	0.55 ppm	PASS 81.40 %
-0.7000000	-0.7000000	-0.6999982	2.73 ppm	-0.7000023	-0.6999977	-2.57 ppm	0.55 ppm	PASS 78.40 %
-0.7777777	-0.7777777	-0.7777760	2.73 ppm	-0.7777803	-0.7777751	-2.13 ppm	0.55 ppm	PASS 65.07 %
-0.8000000	-0.8000000	-0.7999983	2.73 ppm	-0.8000026	-0.7999974	-2.10 ppm	0.55 ppm	PASS 64.02 %
-0.8888888	-0.8888888	-0.8888872	2.73 ppm	-0.8888917	-0.8888859	-1.78 ppm	0.55 ppm	PASS 54.19 %
-0.9000000	-0.9000000	-0.8999986	2.73 ppm	-0.900003	-0.899997	-1.56 ppm	0.55 ppm	PASS 47.59 %
-0.9999999	-0.9999999	-0.9999987	2.73 ppm	-1.000003	-0.9999966	-1.24 ppm	0.55 ppm	PASS 37.80 %
-1.0999999	-1.0999999	-1.0999987	2.73 ppm	-1.100004	-1.099996	-1.08 ppm	0.55 ppm	PASS 32.84 %
DCV Linearity	10V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10.250000	10.250000	10.2499826	1.04 ppm	10.24998	10.25002	-1.70 ppm	0.55 ppm	FAIL 106.76 %
10.000000	10.000000	9.99998450	1.05 ppm	9.999984	10.00002	-1.55 ppm	0.55 ppm	PASS 96.88 %
9.750000	9.750000	9.74998510	1.06 ppm	9.749984	9.750016	-1.53 ppm	0.55 ppm	PASS 94.92 %
9.500000	9.500000	9.49998520	1.06 ppm	9.499985	9.500015	-1.56 ppm	0.55 ppm	PASS 96.76 %
9.250000	9.250000	9.24998520	1.07 ppm	9.249985	9.250015	-1.60 ppm	0.55 ppm	PASS 98.77 %
9.000000	9.000000	8.99998580	1.08 ppm	8.999985	9.000015	-1.58 ppm	0.55 ppm	PASS 96.80 %
8.750000	8.750000	8.74998600	1.09 ppm	8.749986	8.750014	-1.60 ppm	0.55 ppm	PASS 97.56 %
8.500000	8.500000	8.49998660	1.09 ppm	8.499986	8.500014	-1.58 ppm	0.55 ppm	PASS 96.13 %
8.250000	8.250000	8.24998650	1.10 ppm	8.249986	8.250014	-1.64 ppm	0.55 ppm	PASS 99.17 %
8.000000	8.000000	7.9999866	1.11 ppm	7.999987	8.000013	-1.68 ppm	0.55 ppm	FAIL 100.90 %
7.750000	7.750000	7.7499867	1.12 ppm	7.749987	7.750013	-1.72 ppm	0.55 ppm	FAIL 102.76 %
7.500000	7.500000	7.4999869	1.13 ppm	7.499987	7.500013	-1.75 ppm	0.55 ppm	FAIL 103.97 %
7.250000	7.250000	7.2499875	1.14 ppm	7.249988	7.250012	-1.72 ppm	0.55 ppm	FAIL 102.02 %
7.000000	7.000000	6.9999877	1.16 ppm	6.999988	7.000012	-1.76 ppm	0.55 ppm	FAIL 102.76 %
6.750000	6.750000	6.7499879	1.17 ppm	6.749988	6.750012	-1.79 ppm	0.55 ppm	FAIL 104.22 %

6.500000	6.500000	6.4999880	1.18 ppm	6.499989	6.500011	-1.85 ppm	0.55 ppm	FAIL 106.71 %
6.250000	6.250000	6.2499884	1.20 ppm	6.249989	6.250011	-1.86 ppm	0.55 ppm	FAIL 106.06 %
6.000000	6.000000	5.9999890	1.22 ppm	5.999989	6.000011	-1.83 ppm	0.55 ppm	FAIL 103.58 %
5.750000	5.750000	5.7499892	1.23 ppm	5.74999	5.75001	-1.88 ppm	0.55 ppm	FAIL 105.52 %
5.500000	5.500000	5.4999892	1.25 ppm	5.49999	5.50001	-1.96 ppm	0.55 ppm	FAIL 109.09 %
5.250000	5.250000	5.2499900	1.28 ppm	5.24999	5.25001	-1.90 ppm	0.55 ppm	FAIL 104.09 %
5.000000	5.000000	4.9999901	1.30 ppm	4.999991	5.000009	-1.98 ppm	0.55 ppm	FAIL 107.03 %
4.750000	4.750000	4.7499907	1.33 ppm	4.749991	4.750009	-1.96 ppm	0.55 ppm	FAIL 104.14 %
4.500000	4.500000	4.4999911	1.36 ppm	4.499991	4.500009	-1.98 ppm	0.55 ppm	FAIL 103.55 %
4.250000	4.250000	4.2499914	1.39 ppm	4.249992	4.250008	-2.02 ppm	0.55 ppm	FAIL 104.31 %
4.000000	4.000000	3.9999917	1.42 ppm	3.999992	4.000008	-2.08 ppm	0.55 ppm	FAIL 105.33 %
3.750000	3.750000	3.7499923	1.47 ppm	3.749992	3.750008	-2.05 ppm	0.55 ppm	FAIL 101.65 %
3.500000	3.500000	3.4999925	1.51 ppm	3.499993	3.500007	-2.14 ppm	0.55 ppm	FAIL 104.02 %
3.250000	3.250000	3.24999320	1.57 ppm	3.249993	3.250007	-2.09 ppm	0.55 ppm	PASS 98.69 %
3.000000	3.000000	2.99999400	1.63 ppm	2.999993	3.000007	-2.00 ppm	0.55 ppm	PASS 91.74 %
2.750000	2.750000	2.74999450	1.71 ppm	2.749994	2.750006	-2.00 ppm	0.55 ppm	PASS 88.50 %
2.500000	2.500000	2.49999490	1.80 ppm	2.499994	2.500006	-2.04 ppm	0.55 ppm	PASS 86.81 %
2.250000	2.250000	2.24999520	1.91 ppm	2.249994	2.250006	-2.13 ppm	0.55 ppm	PASS 86.72 %
2.000000	2.000000	1.99999570	2.05 ppm	1.999995	2.000005	-2.15 ppm	0.55 ppm	PASS 82.69 %
1.750000	1.750000	1.7499965	2.23 ppm	1.749995	1.750005	-2.00 ppm	0.55 ppm	PASS 71.94 %
1.500000	1.500000	1.4999967	2.47 ppm	1.499995	1.500005	-2.20 ppm	0.55 ppm	PASS 72.85 %
1.250000	1.250000	1.2499976	2.80 ppm	1.249996	1.250004	-1.96 ppm	0.55 ppm	PASS 58.51 %
1.000000	1.000000	0.9999980	3.30 ppm	0.9999961	1.000004	-2.00 ppm	0.55 ppm	PASS 51.95 %
0.750000	0.750000	0.7499984	4.13 ppm	0.7499965	0.7500035	-2.13 ppm	0.55 ppm	PASS 45.58 %
0.500000	0.500000	0.4999989	5.80 ppm	0.4999968	0.5000032	-2.20 ppm	0.55 ppm	PASS 34.65 %
0.250000	0.250000	0.2499996	10.80 ppm	0.2499972	0.2500028	-1.60 ppm	0.55 ppm	PASS 14.10 %
0.100000	0.100000	0.1000000	25.80 ppm	0.09999737	0.1000026	-0.50 ppm	0.55 ppm	PASS 1.90 %
-0.100000	-0.100000	-0.0999994	25.80 ppm	-0.1000026	-0.09999737	-6.00 ppm	0.55 ppm	PASS 22.77 %
-0.250000	-0.250000	-0.2499992	10.80 ppm	-0.2500028	-0.2499972	-3.20 ppm	0.55 ppm	PASS 28.19 %
-0.500000	-0.500000	-0.4999986	5.80 ppm	-0.5000032	-0.4999968	-2.80 ppm	0.55 ppm	PASS 44.09 %
-0.750000	-0.750000	-0.7499979	4.13 ppm	-0.7500035	-0.7499965	-2.80 ppm	0.55 ppm	PASS 59.83 %
-1.000000	-1.000000	-0.9999971	3.30 ppm	-1.000004	-0.9999961	-2.90 ppm	0.55 ppm	PASS 75.32 %
-1.250000	-1.250000	-1.24999645	2.80 ppm	-1.250004	-1.249996	-2.84 ppm	0.55 ppm	PASS 84.78 %
-1.500000	-1.500000	-1.49999580	2.47 ppm	-1.500005	-1.499995	-2.80 ppm	0.55 ppm	PASS 92.72 %
-1.750000	-1.750000	-1.7499951	2.23 ppm	-1.750005	-1.749995	-2.80 ppm	0.55 ppm	FAIL 100.72 %
-2.000000	-2.000000	-1.9999946	2.05 ppm	-2.000005	-1.999995	-2.70 ppm	0.55 ppm	FAIL 103.85 %
-2.250000	-2.250000	-2.2499940	1.91 ppm	-2.250006	-2.249994	-2.64 ppm	0.55 ppm	FAIL 107.50 %
-2.500000	-2.500000	-2.4999935	1.80 ppm	-2.500006	-2.499994	-2.60 ppm	0.55 ppm	FAIL 110.64 %
-2.750000	-2.750000	-2.7499930	1.71 ppm	-2.750006	-2.749994	-2.55 ppm	0.55 ppm	FAIL 112.63 %
-3.000000	-3.000000	-2.9999926	1.63 ppm	-3.000007	-2.999993	-2.47 ppm	0.55 ppm	FAIL 113.15 %
-3.250000	-3.250000	-3.2499920	1.57 ppm	-3.250007	-3.249993	-2.46 ppm	0.55 ppm	FAIL 116.11 %
-3.500000	-3.500000	-3.4999911	1.51 ppm	-3.500007	-3.499993	-2.56 ppm	0.55 ppm	FAIL 124.13 %
-3.750000	-3.750000	-3.7499906	1.47 ppm	-3.750008	-3.749992	-2.51 ppm	0.55 ppm	FAIL 124.09 %
-4.000000	-4.000000	-3.9999902	1.42 ppm	-4.000008	-3.999992	-2.44 ppm	0.55 ppm	FAIL 123.73 %
-4.250000	-4.250000	-4.2499897	1.39 ppm	-4.250008	-4.249992	-2.42 ppm	0.55 ppm	FAIL 124.92 %
-4.500000	-4.500000	-4.4999890	1.36 ppm	-4.500009	-4.499991	-2.43 ppm	0.55 ppm	FAIL 127.40 %
-4.750000	-4.750000	-4.7499887	1.33 ppm	-4.750009	-4.749991	-2.39 ppm	0.55 ppm	FAIL 127.10 %
-5.000000	-5.000000	-4.9999882	1.30 ppm	-5.000009	-4.999991	-2.36 ppm	0.55 ppm	FAIL 127.57 %
-5.250000	-5.250000	-5.2499877	1.28 ppm	-5.25001	-5.24999	-2.34 ppm	0.55 ppm	FAIL 128.02 %
-5.500000	-5.500000	-5.4999869	1.25 ppm	-5.50001	-5.49999	-2.38 ppm	0.55 ppm	FAIL 132.32 %
-5.750000	-5.750000	-5.7499868	1.23 ppm	-5.75001	-5.74999	-2.30 ppm	0.55 ppm	FAIL 128.97 %
-6.000000	-6.000000	-5.9999867	1.22 ppm	-6.000011	-5.999989	-2.22 ppm	0.55 ppm	FAIL 125.24 %
-6.250000	-6.250000	-6.2499861	1.20 ppm	-6.250011	-6.249989	-2.22 ppm	0.55 ppm	FAIL 127.09 %
-6.500000	-6.500000	-6.4999855	1.18 ppm	-6.500011	-6.499989	-2.23 ppm	0.55 ppm	FAIL 128.95 %
-6.750000	-6.750000	-6.7499852	1.17 ppm	-6.750012	-6.749988	-2.19 ppm	0.55 ppm	FAIL 127.48 %
-7.000000	-7.000000	-6.9999849	1.16 ppm	-7.000012	-6.999988	-2.16 ppm	0.55 ppm	FAIL 126.57 %
-7.250000	-7.250000	-7.2499842	1.14 ppm	-7.250012	-7.249988	-2.18 ppm	0.55 ppm	FAIL 128.95 %
-7.500000	-7.500000	-7.4999838	1.13 ppm	-7.500013	-7.499987	-2.17 ppm	0.55 ppm	FAIL 128.97 %
-7.750000	-7.750000	-7.7499835	1.12 ppm	-7.750013	-7.749987	-2.14 ppm	0.55 ppm	FAIL 127.87 %
-8.000000	-8.000000	-7.9999833	1.11 ppm	-8.000013	-7.999987	-2.09 ppm	0.55 ppm	FAIL 125.75 %
-8.250000	-8.250000	-8.2499826	1.10 ppm	-8.250014	-8.249986	-2.11 ppm	0.55 ppm	FAIL 127.82 %
-8.500000	-8.500000	-8.4999826	1.09 ppm	-8.500014	-8.499986	-2.05 ppm	0.55 ppm	FAIL 124.82 %
-8.750000	-8.750000	-8.7499820	1.09 ppm	-8.750014	-8.749986	-2.06 ppm	0.55 ppm	FAIL 125.44 %
-9.000000	-9.000000	-8.9999818	1.08 ppm	-9.000015	-8.999985	-2.02 ppm	0.55 ppm	FAIL 124.06 %
-9.250000	-9.250000	-9.2499813	1.07 ppm	-9.250015	-9.249985	-2.02 ppm	0.55 ppm	FAIL 124.79 %

-9.500000	-9.500000	-9.4999813	1.06 ppm	-9.500015	-9.499985	-1.96 ppm	0.55 ppm	FAIL 121.94 %
-9.750000	-9.750000	-9.7499813	1.06 ppm	-9.750016	-9.749984	-1.92 ppm	0.55 ppm	FAIL 119.13 %
-10.000000	-10.000000	-9.9999808	1.05 ppm	-10.00002	-9.999984	-1.92 ppm	0.55 ppm	FAIL 120.00 %
-10.250000	-10.250000	-10.2499806	1.04 ppm	-10.25002	-10.24998	-1.89 ppm	0.55 ppm	FAIL 119.04 %
DCV Linearity	100V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
100.99999	100.99999	100.9952645	2.73 ppm	100.99966	101.00032	-46.79 ppm	0.55 ppm	FAIL 1041.57 %
100.10101	100.10101	100.0963380	2.73 ppm	100.10068	100.10134	-46.67 ppm	0.55 ppm	FAIL 1041.52 %
100.00000	100.00000	99.9953310	2.73 ppm	99.999672	100.00033	-46.69 ppm	0.55 ppm	FAIL 1423.48 %
99.99999	99.99999	99.9953200	2.73 ppm	99.999662	100.00032	-46.70 ppm	0.55 ppm	FAIL 1423.78 %
90.00000	90.00000	89.9957940	2.73 ppm	89.999705	90.000295	-46.73 ppm	0.55 ppm	FAIL 1424.80 %
88.88888	88.88888	88.8847275	2.73 ppm	88.888588	88.889172	-46.72 ppm	0.55 ppm	FAIL 1424.26 %
80.00000	80.00000	79.9962610	2.73 ppm	79.999738	80.000262	-46.74 ppm	0.55 ppm	FAIL 1424.92 %
77.77777	77.77777	77.7741345	2.73 ppm	77.777515	77.778025	-46.74 ppm	0.55 ppm	FAIL 1425.07 %
70.00000	70.00000	69.9967315	2.73 ppm	69.99977	70.00023	-46.69 ppm	0.55 ppm	FAIL 1423.56 %
66.66666	66.66666	66.6635480	2.73 ppm	66.666441	66.666879	-46.68 ppm	0.55 ppm	FAIL 1423.17 %
60.00000	60.00000	59.9971965	2.73 ppm	59.999803	60.000197	-46.73 ppm	0.55 ppm	FAIL 1424.54 %
55.55555	55.55555	55.5529580	2.73 ppm	55.555368	55.555732	-46.66 ppm	0.55 ppm	FAIL 1422.44 %
50.00000	50.00000	49.9976680	2.73 ppm	49.999836	50.000164	-46.64 ppm	0.55 ppm	FAIL 1421.95 %
44.44444	44.44444	44.4423705	2.73 ppm	44.444294	44.444586	-46.56 ppm	0.55 ppm	FAIL 1419.63 %
40.00000	40.00000	39.9981410	2.73 ppm	39.999869	40.000131	-46.48 ppm	0.55 ppm	FAIL 1416.92 %
33.33333	33.33333	33.3317850	2.73 ppm	33.333221	33.333439	-46.35 ppm	0.55 ppm	FAIL 1413.11 %
30.00000	30.00000	29.9986090	2.73 ppm	29.999902	30.000098	-46.37 ppm	0.55 ppm	FAIL 1413.62 %
22.22222	22.22222	22.2212055	2.73 ppm	22.222147	22.222293	-45.65 ppm	0.55 ppm	FAIL 1391.84 %
20.00000	20.00000	19.9990850	2.73 ppm	19.999934	20.000066	-45.75 ppm	0.55 ppm	FAIL 1394.82 %
11.11111	11.11111	11.1106210	2.73 ppm	11.111075	11.111147	-44.10 ppm	0.55 ppm	FAIL 1344.51 %
10.00000	10.00000	9.9995620	3.86 ppm	9.9999559	10.000044	-43.80 ppm	0.55 ppm	FAIL 993.20 %
9.87654	9.87654	9.8761010	7.27 ppm	9.8764658	9.8766202	-44.75 ppm	0.55 ppm	FAIL 572.28 %
-9.87654	-9.87654	-9.8760355	7.27 ppm	-9.8766202	-9.8764658	-51.38 ppm	0.55 ppm	FAIL 657.09 %
-10.00000	-10.00000	-9.9994850	3.86 ppm	-10.000044	-9.9999559	-51.50 ppm	0.55 ppm	FAIL 1167.80 %
-11.11111	-11.11111	-11.1105465	2.73 ppm	-11.111147	-11.111075	-50.81 ppm	0.55 ppm	FAIL 1548.93 %
-20.00000	-20.00000	-19.9990185	2.73 ppm	-20.000066	-19.999934	-49.08 ppm	0.55 ppm	FAIL 1496.19 %
-22.22222	-22.22222	-22.2211340	2.73 ppm	-22.222293	-22.222147	-48.87 ppm	0.55 ppm	FAIL 1489.94 %
-30.00000	-30.00000	-29.9985455	2.73 ppm	-30.000098	-29.999902	-48.48 ppm	0.55 ppm	FAIL 1478.15 %
-33.33333	-33.33333	-33.3317250	2.73 ppm	-33.333439	-33.333221	-48.15 ppm	0.55 ppm	FAIL 1467.99 %
-40.00000	-40.00000	-39.9980870	2.73 ppm	-40.000131	-39.999869	-47.83 ppm	0.55 ppm	FAIL 1458.08 %
-44.44444	-44.44444	-44.4423190	2.73 ppm	-44.444586	-44.444294	-47.72 ppm	0.55 ppm	FAIL 1454.95 %
-50.00000	-50.00000	-49.9976210	2.73 ppm	-50.000164	-49.999836	-47.58 ppm	0.55 ppm	FAIL 1450.61 %
-55.55555	-55.55555	-55.5529175	2.73 ppm	-55.555732	-55.555368	-47.39 ppm	0.55 ppm	FAIL 1444.66 %
-60.00000	-60.00000	-59.9971610	2.73 ppm	-60.000197	-59.999803	-47.32 ppm	0.55 ppm	FAIL 1442.58 %
-66.66666	-66.66666	-66.6635160	2.73 ppm	-66.666879	-66.666441	-47.16 ppm	0.55 ppm	FAIL 1437.81 %
-70.00000	-70.00000	-69.9967060	2.73 ppm	-70.00023	-69.99977	-47.06 ppm	0.55 ppm	FAIL 1434.67 %
-77.77777	-77.77777	-77.7741240	2.73 ppm	-77.778025	-77.777515	-46.88 ppm	0.55 ppm	FAIL 1429.18 %
-80.00000	-80.00000	-79.9962520	2.73 ppm	-80.000262	-79.999738	-46.85 ppm	0.55 ppm	FAIL 1428.35 %
-88.88888	-88.88888	-88.8847240	2.73 ppm	-88.889172	-88.888588	-46.76 ppm	0.55 ppm	FAIL 1425.46 %
-90.00000	-90.00000	-89.9957930	2.73 ppm	-90.000295	-89.999705	-46.74 ppm	0.55 ppm	FAIL 1425.14 %
-99.99999	-99.99999	-99.9953390	2.73 ppm	-100.00032	-99.999662	-46.51 ppm	0.55 ppm	FAIL 1417.99 %
-100.00000	-100.00000	-99.9953540	2.73 ppm	-100.00033	-99.999672	-46.46 ppm	0.55 ppm	FAIL 1416.46 %
-100.10101	-100.10101	-100.0963590	2.73 ppm	-100.10134	-100.10068	-46.46 ppm	0.55 ppm	FAIL 2235.10 %
-100.99999	-100.99999	-100.9952940	2.73 ppm	-101.00032	-100.99966	-46.50 ppm	0.55 ppm	FAIL 2248.31 %

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
TrueOhm 1 Ω	0.9999198	0.99979605	32.0 ppm	9.9988380E-01	9.9995580E-01	-123.760 ppm	4.0 ppm	FAIL 343.78 %
TrueOhm 1.9 Ω	1.8998043	1.8995064	25.0 ppm	1.8997492E+00	1.8998594E+00	-156.806 ppm	4.0 ppm	FAIL 540.71 %
TrueOhm 10 Ω	9.999089	9.999933	5.0 ppm	9.9989990E+00	9.9991790E+00	84.408 ppm	4.0 ppm	FAIL 937.86 %
TrueOhm 19 Ω	18.999481	18.999097	4.0 ppm	1.8999371E+01	1.8999591E+01	-20.211 ppm	1.8 ppm	FAIL 348.47 %
TrueOhm 100 Ω	99.99625	100.00183	1.7 ppm	9.9995900E+01	9.9996600E+01	55.802 ppm	1.8 ppm	FAIL 1594.35 %
TrueOhm 190 Ω	189.99771	189.99505	1.7 ppm	1.8999714E+02	1.8999828E+02	-14.000 ppm	1.3 ppm	FAIL 466.67 %
TrueOhm 1.0 kΩ	999.9961	999.9918	1.7 ppm	9.9999310E+02	9.9999910E+02	-4.300 ppm	1.3 ppm	FAIL 143.33 %
TrueOhm 1.9 kΩ	1899.9985	1899.9976	1.7 ppm	1.8999928E+03	1.9000042E+03	-0.474 ppm	1.3 ppm	PASS 15.79 %
TrueOhm 10 kΩ	10000.401	10000.084	1.6 ppm	1.0000372E+04	1.0000430E+04	-31.699 ppm	1.3 ppm	FAIL 1093.06 %
TrueOhm 19 kΩ	18999.389	18999.701	1.7 ppm	1.8999332E+04	1.8999446E+04	16.422 ppm	1.3 ppm	FAIL 547.39 %
TrueOhm 100 kΩ	100002.57	100001.4	2.0 ppm	1.0000224E+05	1.0000290E+05	-11.700 ppm	1.3 ppm	FAIL 354.54 %
TrueOhm 190 kΩ	189997.06	189992.98	2.0 ppm	1.8999617E+05	1.8999795E+05	-21.474 ppm	2.7 ppm	FAIL 456.89 %
1.0 MΩ	1000007	1000003.1	2.5 ppm	1.0000018E+06	1.0000122E+06	-3.900 ppm	2.7 ppm	PASS 75.00 %
1.9 MΩ	1899944.4	1899959.2	3.0 ppm	1.8999235E+06	1.8999653E+06	7.790 ppm	8.0 ppm	PASS 70.82 %
10 MΩ	9999616	9999407	10.0 ppm	9.9994360E+06	9.9997960E+06	-20.901 ppm	8.0 ppm	FAIL 116.12 %
19 MΩ	18998199	18999096	20.0 ppm	1.8996394E+07	1.9000004E+07	47.215 ppm	75.0 ppm	PASS 49.70 %
100 MΩ	1.0000711E+08	1.000094E+08	50.0 ppm	9.9994609E+07	1.0001961E+08	22.898 ppm	75.0 ppm	PASS 18.32 %

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
TrueOhm 10 Ω	Range -0.0000096 Ω	5.000e-05 Ω	-5e-05	5e-05	N/A	4.0000e-06 Ω	PASS
TrueOhm 100 Ω	Range -0.0000070 Ω	5.500e-04 Ω	-0.00055	0.00055	N/A	1.3000e-06 Ω	PASS
TrueOhm 1.0 kΩ	Range 0.0000400 Ω	5.500e-03 Ω	-0.0055	0.0055	N/A	1.3000e-06 Ω	PASS
TrueOhm 10 kΩ	Range 0.0001000 Ω	5.500e-02 Ω	-0.055	0.055	N/A	1.3000e-06 Ω	PASS
TrueOhm 100 kΩ	Range 0.0060000 Ω	5.500e-01 Ω	-0.55	0.55	N/A	1.3000e-06 Ω	PASS
1.0 MΩ	Range 0.0080000 Ω	5.500e+00 Ω	-5.5	5.5	N/A	1.3000e-06 Ω	PASS
10 MΩ	Range 0.0070000 Ω	5.500e+01 Ω	-55	55	N/A	1.3000e-06 Ω	PASS
100 MΩ	Range 0.0070000 Ω	5.500e+02 Ω	-550	550	N/A	1.3000e-06 Ω	PASS
1 GΩ	Range 0.0060000 Ω	5.500e+03 Ω	-5500	5500	N/A	1.3000e-06 Ω	PASS
OHM ZERO 2W	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
TrueOhm 10 Ω	Range 0.8673660 Ω	3.000e-01 Ω	-0.3	0.3	N/A	4.0000e-06 Ω	FAIL
TrueOhm 100 Ω	Range 0.8668530 Ω	3.500e-01 Ω	-0.35	0.35	N/A	1.3000e-06 Ω	FAIL
TrueOhm 1.0 kΩ	Range 0.8661500 Ω	4.000e-01 Ω	-0.4	0.4	N/A	1.3000e-06 Ω	FAIL
TrueOhm 10 kΩ	Range 0.8653000 Ω	4.000e-01 Ω	-0.4	0.4	N/A	1.3000e-06 Ω	FAIL
TrueOhm 100 kΩ	Range 0.8490000 Ω	5.500e-01 Ω	-0.55	0.55	N/A	1.3000e-06 Ω	FAIL
1.0 MΩ	Range 0.5300000 Ω	5.500e+00 Ω	-5.5	5.5	N/A	1.3000e-06 Ω	PASS
10 MΩ	Range -1.7000000 Ω	5.500e+01 Ω	-55	55	N/A	1.3000e-06 Ω	PASS
100 MΩ	Range -1.3000000 Ω	5.500e+02 Ω	-550	550	N/A	1.3000e-06 Ω	PASS
1 GΩ	Range -1.4000000 Ω	5.500e+03 Ω	-5500	5500	N/A	1.3000e-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	1.000091	129.09	0.99937091	1.00062909	VAC	91.000 ppm	500.0 ppm	PASS 14.47 %
1.0 VAC @ 1.0 MHz	1.0	1.002942	0.2500 %	0.9845	1.0155	VAC	0.2942 %	1.3000 %	PASS 18.98 %
1.9 VAC @ 10 Hz	1.9	1.906495	73.18	1.899613958	1.900386042	VAC	3418.421 ppm	130.0 ppm	FAIL 1682.46 %
1.9 VAC @ 200 Hz	1.9	1.900484	73.18	1.899784958	1.900215042	VAC	254.737 ppm	40.0 ppm	FAIL 225.07 %
1.9 VAC @ 500 Hz	1.9	1.900512	73.18	1.899784958	1.900215042	VAC	269.474 ppm	40.0 ppm	FAIL 238.09 %
1.9 VAC @ 50.0 kHz	1.9	1.90032	129.09	1.899089729	1.900910271	VAC	168.421 ppm	350.0 ppm	PASS 35.15 %
1.9 VAC @ 1.0 MHz	1.9	1.901105	0.3000 %	1.8658	1.9342	VAC	0.0582 %	1.5000 %	PASS 3.23 %
10.0 VAC @ 10 Hz	10.0	10.03705	73.18	9.9979682	10.0020318	VAC	3705.000 ppm	130.0 ppm	FAIL 1823.51 %
10.0 VAC @ 200 Hz	10.0	10.00131	73.18	9.9988682	10.0011318	VAC	131.000 ppm	40.0 ppm	FAIL 115.74 %
10.0 VAC @ 500 Hz	10.0	10.00146	73.18	9.9988682	10.0011318	VAC	146.000 ppm	40.0 ppm	FAIL 129.00 %
10.0 VAC @ 50.0 kHz	10.0	10.00018	129.09	9.9952091	10.0047909	VAC	18.000 ppm	350.0 ppm	PASS 3.76 %
10.0 VAC @ 1.0 MHz	10.0	10.08094	0.3000 %	9.82	10.18	VAC	0.8094 %	1.5000 %	PASS 44.97 %
19 VAC @ 10 Hz	19	18.98271	73.18	18.99613958	19.00386042	VAC	-910.000 ppm	130.0 ppm	FAIL 447.88 %
19 VAC @ 200 Hz	19	19.00394	73.18	18.99784958	19.00215042	VAC	207.368 ppm	40.0 ppm	FAIL 183.22 %
19 VAC @ 500 Hz	19	19.00424	73.18	18.99784958	19.00215042	VAC	223.158 ppm	40.0 ppm	FAIL 197.17 %
19 VAC @ 50.0 kHz	19	19.00151	129.09	18.99089729	19.00910271	VAC	79.474 ppm	350.0 ppm	PASS 16.59 %
19 VAC @ 1.0 MHz	19	19.10399	0.3000 %	18.658	19.342	VAC	0.5473 %	1.5000 %	PASS 30.41 %

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
0.1 V AC+DC @ 10 Hz	0.1061949	0.0121 %	0.099973	0.100027	6.1949 %	0.0150 %	FAIL 22829.08 %
0.1 V AC+DC @ 20 Hz	0.0993971	0.0121 %	0.099973	0.100027	-0.6029 %	0.0150 %	FAIL 2221.77 %
0.1 V AC+DC @ 50 Hz	0.1000216	0.0121 %	0.099983	0.100017	0.0216 %	0.0050 %	FAIL 126.05 %
0.1 V AC+DC @ 100 Hz	0.1000283	0.0121 %	0.099983	0.100017	0.0283 %	0.0050 %	FAIL 165.15 %
0.1 V AC+DC @ 1.0 kHz	0.1000188	0.0121 %	0.099983	0.100017	0.0188 %	0.0050 %	FAIL 109.71 %
0.1 V AC+DC @ 10.0 kHz	0.100022	0.0121 %	0.099960	0.100040	0.0220 %	0.0280 %	PASS 54.81 %
0.1 V AC+DC @ 20.0 kHz	0.1000213	0.0121 %	0.099960	0.100040	0.0213 %	0.0280 %	PASS 53.07 %
0.1 V AC+DC @ 50.0 kHz	0.1000175	0.0256 %	0.099924	0.100076	0.0175 %	0.0500 %	PASS 23.14 %
0.1 V AC+DC @ 100.0 kHz	0.0999955	0.0591 %	0.099891	0.100109	-0.0045 %	0.0500 %	PASS 4.12 %
0.1 V AC+DC @ 300.0 kHz	0.0991067	0.0964 %	0.099554	0.100446	-0.8933 %	0.3500 %	FAIL 200.13 %
0.1 V AC+DC @ 500.0 kHz	0.096301	0.1500 %	0.098550	0.101450	-3.6990 %	1.3000 %	FAIL 255.10 %
0.1 V AC+DC @ 1.0 MHz	0.0802875	0.3000 %	0.098400	0.101600	-19.7125 %	1.3000 %	FAIL 1232.03 %
0.19 V AC+DC @ 10 Hz	0.1989668	0.0121 %	0.189948	0.190052	4.7194 %	0.0150 %	FAIL 17391.54 %
0.19 V AC+DC @ 20 Hz	0.1887094	0.0121 %	0.189948	0.190052	-0.6793 %	0.0150 %	FAIL 2503.18 %
0.19 V AC+DC @ 50 Hz	0.1900534	0.0121 %	0.189967	0.190033	0.0281 %	0.0050 %	FAIL 164.01 %
0.19 V AC+DC @ 100 Hz	0.1900674	0.0121 %	0.189967	0.190033	0.0355 %	0.0050 %	FAIL 207.01 %
0.19 V AC+DC @ 1.0 kHz	0.1900472	0.0121 %	0.189967	0.190033	0.0248 %	0.0050 %	FAIL 144.97 %
0.19 V AC+DC @ 10.0 kHz	0.1900556	0.0121 %	0.189924	0.190076	0.0293 %	0.0280 %	PASS 72.91 %
0.19 V AC+DC @ 20.0 kHz	0.1900585	0.0121 %	0.189924	0.190076	0.0308 %	0.0280 %	PASS 76.71 %
0.19 V AC+DC @ 50.0 kHz	0.1900666	0.0256 %	0.189856	0.190144	0.0351 %	0.0500 %	PASS 46.34 %
0.19 V AC+DC @ 100.0 kHz	0.1900147	0.0591 %	0.189793	0.190207	0.0077 %	0.0500 %	PASS 7.09 %
0.19 V AC+DC @ 300.0 kHz	0.1881222	0.0964 %	0.189152	0.190848	-0.9883 %	0.3500 %	FAIL 221.41 %
0.19 V AC+DC @ 500.0 kHz	0.1812452	0.1500 %	0.187245	0.192755	-4.6078 %	1.3000 %	FAIL 317.78 %
0.19 V AC+DC @ 1.0 MHz	0.1488029	0.3000 %	0.186960	0.193040	-21.6827 %	1.3000 %	FAIL 1355.17 %
1.0 V AC+DC @ 10 Hz	1.017534	0.0050 %	0.999820	1.000180	1.7534 %	0.0130 %	FAIL 9765.52 %
1.0 V AC+DC @ 20 Hz	0.996015	0.0050 %	0.999820	1.000180	-0.3985 %	0.0130 %	FAIL 2219.44 %
1.0 V AC+DC @ 50 Hz	1.000264	0.0050 %	0.999910	1.000090	0.0264 %	0.0040 %	FAIL 294.81 %
1.0 V AC+DC @ 100 Hz	1.00032	0.0050 %	0.999910	1.000090	0.0320 %	0.0040 %	FAIL 357.34 %
1.0 V AC+DC @ 1.0 kHz	1.000219	0.0050 %	0.999910	1.000090	0.0219 %	0.0040 %	FAIL 244.56 %
1.0 V AC+DC @ 10.0 kHz	1.000223	0.0050 %	0.999830	1.000170	0.0223 %	0.0120 %	FAIL 131.52 %
1.0 V AC+DC @ 20.0 kHz	1.000148	0.0050 %	0.999830	1.000170	0.0148 %	0.0120 %	PASS 87.29 %
1.0 V AC+DC @ 50.0 kHz	1.000102	0.0085 %	0.999565	1.000435	0.0102 %	0.0350 %	PASS 23.42 %
1.0 V AC+DC @ 100.0 kHz	1.000377	0.0138 %	0.997362	1.002638	0.0377 %	0.2500 %	PASS 14.29 %
1.0 V AC+DC @ 300.0 kHz	1.002657	0.0425 %	0.984575	1.015425	0.2657 %	1.5000 %	PASS 17.22 %
1.0 V AC+DC @ 500.0 kHz	1.005159	0.1100 %	0.983900	1.016100	0.5159 %	1.5000 %	PASS 32.04 %
1.0 V AC+DC @ 1.0 MHz	1.002712	0.1800 %	0.983200	1.016800	0.2712 %	1.5000 %	PASS 16.14 %
1.9 V AC+DC @ 10 Hz	1.957955	0.0048 %	1.899661	1.900339	3.0503 %	0.0130 %	FAIL 17119.00 %
1.9 V AC+DC @ 20 Hz	1.889769	0.0048 %	1.899661	1.900339	-0.5385 %	0.0130 %	FAIL 3022.08 %
1.9 V AC+DC @ 50 Hz	1.900596	0.0048 %	1.899832	1.900168	0.0314 %	0.0040 %	FAIL 355.73 %
1.9 V AC+DC @ 100 Hz	1.900759	0.0048 %	1.899832	1.900168	0.0399 %	0.0040 %	FAIL 453.02 %
1.9 V AC+DC @ 1.0 kHz	1.900557	0.0048 %	1.899832	1.900168	0.0293 %	0.0040 %	FAIL 332.45 %
1.9 V AC+DC @ 10.0 kHz	1.900568	0.0048 %	1.899680	1.900320	0.0299 %	0.0120 %	FAIL 177.75 %
1.9 V AC+DC @ 20.0 kHz	1.900422	0.0048 %	1.899680	1.900320	0.0222 %	0.0120 %	FAIL 132.06 %
1.9 V AC+DC @ 50.0 kHz	1.90033	0.0085 %	1.899173	1.900827	0.0174 %	0.0350 %	PASS 39.89 %
1.9 V AC+DC @ 100.0 kHz	1.900781	0.0121 %	1.895019	1.904981	0.0411 %	0.2500 %	PASS 15.68 %
1.9 V AC+DC @ 300.0 kHz	1.904452	0.0336 %	1.870861	1.929139	0.2343 %	1.5000 %	PASS 15.28 %
1.9 V AC+DC @ 500.0 kHz	1.908321	0.1100 %	1.869410	1.930590	0.4379 %	1.5000 %	PASS 27.20 %
1.9 V AC+DC @ 1.0 MHz	1.9006	0.1700 %	1.868270	1.931730	0.0316 %	1.5000 %	PASS 1.89 %
10.0 V AC+DC @ 10 Hz	10.36811	0.0048 %	9.998218	10.001782	3.6811 %	0.0130 %	FAIL 20659.45 %
10.0 V AC+DC @ 20 Hz	9.95288	0.0048 %	9.998218	10.001782	-0.4712 %	0.0130 %	FAIL 2644.52 %
10.0 V AC+DC @ 50 Hz	10.00217	0.0048 %	9.999118	10.000882	0.0217 %	0.0040 %	FAIL 246.09 %
10.0 V AC+DC @ 100 Hz	10.00282	0.0048 %	9.999118	10.000882	0.0282 %	0.0040 %	FAIL 319.80 %
10.0 V AC+DC @ 1.0 kHz	10.00169	0.0048 %	9.999118	10.000882	0.0169 %	0.0040 %	FAIL 191.65 %
10.0 V AC+DC @ 10.0 kHz	10.00173	0.0048 %	9.998318	10.001682	0.0173 %	0.0120 %	FAIL 102.87 %
10.0 V AC+DC @ 20.0 kHz	10.00091	0.0048 %	9.998318	10.001682	0.0091 %	0.0120 %	PASS 54.11 %
10.0 V AC+DC @ 50.0 kHz	10.0002	0.0085 %	9.995646	10.004354	0.0020 %	0.0350 %	PASS 4.59 %
10.0 V AC+DC @ 100.0 kHz	10.00086	0.0121 %	9.973786	10.026214	0.0086 %	0.2500 %	PASS 3.28 %
10.0 V AC+DC @ 300.0 kHz	10.00358	0.0336 %	9.846636	10.153364	0.0358 %	1.5000 %	PASS 2.33 %
10.0 V AC+DC @ 500.0 kHz	10.01235	0.1100 %	9.839000	10.161000	0.1235 %	1.5000 %	PASS 7.67 %
10.0 V AC+DC @ 1.0 MHz	10.08029	0.1700 %	9.833000	10.167000	0.8029 %	1.5000 %	PASS 48.08 %

19 V AC+DC @ 10 Hz	19.73079	0.0060 %	18.996387	19.003613	3.8463 %	0.0130 %	FAIL 20224.33 %
19 V AC+DC @ 20 Hz	18.8889	0.0060 %	18.996387	19.003613	-0.5847 %	0.0130 %	FAIL 3074.65 %
19 V AC+DC @ 50 Hz	19.00512	0.0060 %	18.998097	19.001903	0.0269 %	0.0040 %	FAIL 268.99 %
19 V AC+DC @ 100 Hz	19.00679	0.0060 %	18.998097	19.001903	0.0357 %	0.0040 %	FAIL 356.73 %
19 V AC+DC @ 1.0 kHz	19.00463	0.0060 %	18.998097	19.001903	0.0244 %	0.0040 %	FAIL 243.25 %
19 V AC+DC @ 10.0 kHz	19.00466	0.0060 %	18.996577	19.003423	0.0245 %	0.0120 %	FAIL 136.12 %
19 V AC+DC @ 20.0 kHz	19.00307	0.0060 %	18.996577	19.003423	0.0162 %	0.0120 %	PASS 89.68 %
19 V AC+DC @ 50.0 kHz	19.00139	0.0060 %	18.992207	19.007793	0.0073 %	0.0350 %	PASS 17.84 %
19 V AC+DC @ 100.0 kHz	19.00187	0.0174 %	18.949201	19.050799	0.0098 %	0.2500 %	PASS 3.68 %
19 V AC+DC @ 300.0 kHz	19.00157	0.0991 %	18.696173	19.303827	0.0083 %	1.5000 %	PASS 0.52 %
19 V AC+DC @ 500.0 kHz	19.01063	0.5200 %	18.616200	19.383800	0.0559 %	1.5000 %	PASS 2.77 %
19 V AC+DC @ 1.0 MHz	19.10315	0.1700 %	18.682700	19.317300	0.5429 %	1.5000 %	PASS 32.51 %
100.0 V AC+DC @ 10 Hz	103.342	0.0060 %	99.980982	100.019018	3.3420 %	0.0130 %	FAIL 17462.64 %
100.0 V AC+DC @ 20 Hz	99.4489	0.0060 %	99.980982	100.019018	-0.5511 %	0.0130 %	FAIL 2897.78 %
100.0 V AC+DC @ 50 Hz	100.0226	0.0060 %	99.989982	100.010018	0.0226 %	0.0040 %	FAIL 222.92 %
100.0 V AC+DC @ 100 Hz	100.0298	0.0060 %	99.989982	100.010018	0.0298 %	0.0040 %	FAIL 293.94 %
100.0 V AC+DC @ 1.0 kHz	100.0195	0.0060 %	99.989982	100.010018	0.0195 %	0.0040 %	FAIL 192.35 %
100.0 V AC+DC @ 10.0 kHz	100.0211	0.0060 %	99.981982	100.018018	0.0211 %	0.0120 %	FAIL 116.33 %
100.0 V AC+DC @ 20.0 kHz	100.0139	0.0060 %	99.981982	100.018018	0.0139 %	0.0120 %	PASS 76.63 %
100.0 V AC+DC @ 50.0 kHz	100.0065	0.0095 %	99.955455	100.044545	0.0065 %	0.0350 %	PASS 14.55 %
100.0 V AC+DC @ 100.0 kHz	100.0119	0.0174 %	99.732636	100.267364	0.0119 %	0.2500 %	PASS 4.45 %
190.0 V AC+DC @ 10 Hz	192.0789	0.0060 %	189.963866	190.036134	1.0942 %	0.0130 %	FAIL 5685.12 %
190.0 V AC+DC @ 20 Hz	189.1948	0.0060 %	189.963866	190.036134	-0.4238 %	0.0130 %	FAIL 2201.96 %
190.0 V AC+DC @ 50 Hz	190.0561	0.0060 %	189.980966	190.019034	0.0295 %	0.0040 %	FAIL 288.17 %
190.0 V AC+DC @ 100 Hz	190.0719	0.0060 %	189.980966	190.019034	0.0378 %	0.0040 %	FAIL 369.34 %
190.0 V AC+DC @ 1.0 kHz	190.0519	0.0060 %	189.980966	190.019034	0.0273 %	0.0040 %	FAIL 266.60 %
190.0 V AC+DC @ 10.0 kHz	190.0543	0.0060 %	189.965766	190.034234	0.0286 %	0.0120 %	FAIL 156.63 %
190.0 V AC+DC @ 20.0 kHz	190.0403	0.0060 %	189.965766	190.034234	0.0212 %	0.0120 %	FAIL 116.25 %
190.0 V AC+DC @ 50.0 kHz	190.0234	0.0095 %	189.915365	190.084635	0.0123 %	0.0350 %	PASS 27.51 %
190.0 V AC+DC @ 100.0 kHz	190.0258	0.0174 %	189.492008	190.507992	0.0136 %	0.2500 %	PASS 5.07 %
700.0 V AC+DC @ 50 Hz	700.186	0.0079 %	699.902952	700.097048	0.0266 %	0.0060 %	FAIL 180.71 %
700.0 V AC+DC @ 100 Hz	700.217	0.0079 %	699.902952	700.097048	0.0310 %	0.0060 %	FAIL 210.83 %
700.0 V AC+DC @ 1.0 kHz	700.156	0.0079 %	699.902952	700.097048	0.0223 %	0.0060 %	FAIL 151.56 %

Test date	20 May 2019 02:21
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Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

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