

Manufacturer	Datron Instruments	Calibration date	June 05 2019
Model Number	1281	Ambient Temperature	0.00 °C
Serial	MM-GPIB8	Relative Humidity	0.00 %
ID Number	Bot	Pressure	0.00
Notes	Test front V/R ports	Test type	2nd

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	239.0 days ago	MFC since DCV ZERO	7.0 days ago
MFC since WBFLAT	11477.0 days ago	MFC since WBGAIN	239.0 days ago
MFC Confidence level	<b>24h 95% REL</b>	MFC Calibrate date	2018-10-09 00:00:00
MFC Calibrate date Zero	2019-05-29 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	2018-10-09 00:00:00	CAL CONST 6.5V reference voltage	6.89136129033
CAL CONST 13V reference voltage	13.7948160154	CAL CONST 22V range positive zero	398.17885
CAL CONST 22V range negative zero	398.1784	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	10000.0862278	CAL CONST 10KOHM standard resistance	10000.4488527
CAL CONST, Zero calibration temperature	23.0	CAL CONST, All calibration temp	23.0

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

Meter Info	Datron Instruments,1281,19620-4 ,890144-03.12	Last calibration date	N/A
Next calibration date	N/A	Test date	05 June 2019 08:25

Service information

Confidence test result?
0.0
Options
1,1,1,1,0,0,0
Reference
Direct MFC test, verification 5720MMA
DUT Condition
Test after manual DCV/Res cal

Test procedure : \$Id: d1281.py | Rev 1345 | 2019/06/05 12:25:10 MM \$

Source procedure : \$Id: f5720a.py | Rev 1196 | 2019/03/11 16:10:33 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	-1.31 µV	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	FAIL
Short 0.0 VDC	0.000000E+00	-0.73 µV	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	PASS
Short 00.0 VDC	0.000000E+00	-2.50 µV	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	FAIL
Short 000.0 VDC	0.000000E+00	-40.00 µV	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	FAIL
Short 0000.0 VDC	0.000000E+00	0.00 µV	0.75 µV	-41.750 µV	41.750 µV	N/A	41.00 µV	PASS
DCV Test	0.1V-1000V	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
0.1 VDC (0.10 Range)	0.1000000	0.099999931	7.27 ppm	0.099998723	0.10000128	-0.690 ppm	5.50 ppm	PASS 5.40 %
-0.1 VDC (0.10 Range)	-0.1000000	-0.10000006	7.27 ppm	-0.10000128	-0.099998723	0.630 ppm	5.50 ppm	PASS 4.93 %
0.1 VDC (1.00 Range)	0.1000000	0.09999927	7.27 ppm	0.099999093	0.10000091	-7.300 ppm	1.80 ppm	PASS 80.49 %
0.2 VDC (1.00 Range)	0.2000000	0.1999995	3.86 ppm	0.19999887	0.20000113	-2.500 ppm	1.80 ppm	PASS 44.17 %
1.0 VDC (1.00 Range)	1.0000000	1.0000003	3.86 ppm	0.99999434	1.0000057	0.290 ppm	1.80 ppm	PASS 5.12 %
-0.1 VDC (1.00 Range)	-0.1000000	-0.10000064	7.27 ppm	-0.10000091	-0.099999093	6.400 ppm	1.80 ppm	PASS 70.56 %
-0.2 VDC (1.00 Range)	-0.2000000	-0.20000053	3.86 ppm	-0.20000113	-0.19999887	2.650 ppm	1.80 ppm	PASS 46.82 %
-1.0 VDC (1.00 Range)	-1.0000000	-1.0000005	3.86 ppm	-1.0000057	-0.99999434	0.460 ppm	1.80 ppm	PASS 8.13 %
1.0 VDC (10.00 Range)	1.0000000	0.9999985	3.86 ppm	0.99999559	1.0000044	-1.500 ppm	0.55 ppm	PASS 34.01 %
2.0 VDC (10.00 Range)	2.0000000	1.9999982	2.77 ppm	1.9999934	2.0000066	-0.925 ppm	0.55 ppm	PASS 27.86 %
10.0 VDC (10.00 Range)	10.0000000	10.000001	2.73 ppm	9.9999672	10.000033	0.120 ppm	0.55 ppm	PASS 3.66 %
-1.0 VDC (10.00 Range)	-1.0000000	-1.0000024	3.86 ppm	-1.0000044	-0.99999559	2.400 ppm	0.55 ppm	PASS 54.42 %
-2.0 VDC (10.00 Range)	-2.0000000	-2.000002	2.77 ppm	-2.0000066	-1.9999934	1.000 ppm	0.55 ppm	PASS 30.12 %
-10.0 VDC (10.00 Range)	-10.0000000	-10.000004	2.73 ppm	-10.000033	-9.9999672	0.450 ppm	0.55 ppm	PASS 13.72 %
10 VDC (100.00 Range)	10.0000000	9.99998	2.77 ppm	9.9999443	10.000056	-2.000 ppm	2.80 ppm	PASS 35.91 %
20 VDC (100.00 Range)	20.0000000	19.999987	3.73 ppm	19.999869	20.000131	-0.625 ppm	2.80 ppm	PASS 9.57 %
100 VDC (100.00 Range)	100.0000000	100.00002	3.73 ppm	99.999347	100.00065	0.245 ppm	2.80 ppm	PASS 3.75 %
-10 VDC (100.00 Range)	-10.0000000	-10.000046	2.77 ppm	-10.000056	-9.9999443	4.600 ppm	2.80 ppm	PASS 82.59 %
-20 VDC (100.00 Range)	-20.0000000	-20.000054	3.73 ppm	-20.000131	-19.999869	2.700 ppm	2.80 ppm	PASS 41.35 %
-100 VDC (100.00 Range)	-100.0000000	-100.0001	3.73 ppm	-100.00065	-99.999347	1.020 ppm	2.80 ppm	PASS 15.62 %
100 VDC (1000.00 Range)	100.0000000	100.00007	3.73 ppm	99.999367	100.00063	0.700 ppm	2.60 ppm	PASS 11.06 %
200 VDC (1000.00 Range)	200.0000000	199.99998	3.73 ppm	199.99873	200.00127	-0.100 ppm	2.60 ppm	PASS 1.58 %
1000 VDC (1000.00 Range)	1000.0000000	999.99959	5.45 ppm	999.97995	1000.02	-0.405 ppm	2.60 ppm	PASS 2.02 %
-100 VDC (1000.00 Range)	-100.0000000	-99.99992	3.73 ppm	-100.00063	-99.999367	-0.800 ppm	2.60 ppm	PASS 12.64 %
-200 VDC (1000.00 Range)	-200.0000000	-199.99984	3.73 ppm	-200.00127	-199.99873	-0.800 ppm	2.60 ppm	PASS 12.64 %
-1000 VDC (1000.00 Range)	-1000.0000000	-1000.0006	5.45 ppm	-1000.02	-999.97995	0.600 ppm	2.60 ppm	PASS 15.19 %

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	<b>1.0999998</b>	2.73 ppm	1.099996	1.100004	-0.06 ppm	0.55 ppm	PASS 1.80 %
0.9999999	0.9999999	<b>0.9999998</b>	2.73 ppm	0.9999966	1.000003	-0.08 ppm	0.55 ppm	PASS 2.44 %
0.9000000	0.9000000	<b>0.8999999</b>	2.73 ppm	0.899997	0.900003	-0.07 ppm	0.55 ppm	PASS 2.03 %
0.8888888	0.8888888	<b>0.8888888</b>	2.73 ppm	0.8888859	0.8888917	-0.06 ppm	0.55 ppm	PASS 1.71 %
0.8000000	0.8000000	<b>0.8000000</b>	2.73 ppm	0.7999974	0.8000026	0.01 ppm	0.55 ppm	PASS 0.38 %
0.7777777	0.7777777	<b>0.7777777</b>	2.73 ppm	0.7777751	0.7777803	0.01 ppm	0.55 ppm	PASS 0.20 %
0.7000000	0.7000000	<b>0.7000000</b>	2.73 ppm	0.6999977	0.7000023	0.00 ppm	0.55 ppm	PASS 0.00 %
0.6666666	0.6666666	<b>0.6666666</b>	2.73 ppm	0.6666644	0.6666688	0.05 ppm	0.55 ppm	PASS 1.60 %
0.6000000	0.6000000	<b>0.6000000</b>	2.73 ppm	0.599998	0.600002	0.05 ppm	0.55 ppm	PASS 1.52 %
0.5555555	0.5555555	<b>0.5555555</b>	2.73 ppm	0.5555537	0.5555573	-0.02 ppm	0.55 ppm	PASS 0.55 %
0.5000000	0.5000000	<b>0.5000000</b>	2.73 ppm	0.4999984	0.5000016	-0.06 ppm	0.55 ppm	PASS 1.83 %
0.4444444	0.4444444	<b>0.4444443</b>	2.73 ppm	0.4444429	0.4444459	-0.15 ppm	0.55 ppm	PASS 4.46 %
0.4000000	0.4000000	<b>0.3999999</b>	2.73 ppm	0.3999987	0.4000013	-0.27 ppm	0.55 ppm	PASS 8.38 %
0.3333333	0.3333333	<b>0.3333333</b>	2.73 ppm	0.3333322	0.3333344	-0.08 ppm	0.55 ppm	PASS 2.29 %
0.3000000	0.3000000	<b>0.2999999</b>	2.73 ppm	0.299999	0.300001	-0.37 ppm	0.55 ppm	PASS 11.18 %
0.2222222	0.2222222	<b>0.2222221</b>	2.73 ppm	0.2222215	0.2222229	-0.41 ppm	0.55 ppm	PASS 12.35 %
0.2000000	0.2000000	<b>0.1999999</b>	2.73 ppm	0.1999993	0.2000007	-0.53 ppm	0.55 ppm	PASS 16.01 %
0.1234567	0.1234567	<b>0.1234565</b>	2.73 ppm	0.1234563	0.1234571	-1.34 ppm	0.55 ppm	PASS 40.75 %
0.1111111	0.1111111	<b>0.1111110</b>	2.73 ppm	0.1111107	0.1111115	-1.08 ppm	0.55 ppm	PASS 32.93 %
0.1000000	0.1000000	<b>0.0999999</b>	2.73 ppm	0.09999967	0.1000003	-0.85 ppm	0.55 ppm	PASS 25.91 %
0.0987654	0.0987654	<b>0.0987652</b>	3.86 ppm	0.09876496	0.09876584	-1.57 ppm	0.55 ppm	PASS 35.59 %
0.0111111	0.0111111	<b>0.0111109</b>	7.27 ppm	0.01111101	0.01111119	-15.75 ppm	0.55 ppm	FAIL 201.41 %
-0.0111111	-0.0111111	<b>-0.0111113</b>	7.27 ppm	-0.01111119	-0.01111101	18.90 ppm	0.55 ppm	FAIL 241.69 %
-0.0987654	-0.0987654	<b>-0.0987656</b>	3.86 ppm	-0.09876584	-0.09876496	1.97 ppm	0.55 ppm	PASS 44.77 %
-0.1000000	-0.1000000	<b>-0.1000001</b>	2.73 ppm	-0.1000003	-0.09999967	1.50 ppm	0.55 ppm	PASS 45.73 %
-0.1111111	-0.1111111	<b>-0.1111113</b>	2.73 ppm	-0.1111115	-0.1111107	1.49 ppm	0.55 ppm	PASS 45.27 %
-0.1234567	-0.1234567	<b>-0.1234569</b>	2.73 ppm	-0.1234571	-0.1234563	1.98 ppm	0.55 ppm	PASS 60.50 %
-0.2000000	-0.2000000	<b>-0.2000002</b>	2.73 ppm	-0.2000007	-0.1999993	0.97 ppm	0.55 ppm	PASS 29.73 %
-0.2222222	-0.2222222	<b>-0.2222224</b>	2.73 ppm	-0.2222229	-0.2222215	0.88 ppm	0.55 ppm	PASS 26.75 %
-0.3000000	-0.3000000	<b>-0.3000002</b>	2.73 ppm	-0.300001	-0.299999	0.82 ppm	0.55 ppm	PASS 24.90 %
-0.3333333	-0.3333333	<b>-0.3333335</b>	2.73 ppm	-0.3333344	-0.3333322	0.74 ppm	0.55 ppm	PASS 22.41 %
-0.4000000	-0.4000000	<b>-0.4000002</b>	2.73 ppm	-0.4000013	-0.3999987	0.59 ppm	0.55 ppm	PASS 17.91 %
-0.4444444	-0.4444444	<b>-0.4444446</b>	2.73 ppm	-0.4444459	-0.4444429	0.45 ppm	0.55 ppm	PASS 13.72 %
-0.5000000	-0.5000000	<b>-0.5000003</b>	2.73 ppm	-0.5000016	-0.4999984	0.53 ppm	0.55 ppm	PASS 16.16 %
-0.5555555	-0.5555555	<b>-0.5555558</b>	2.73 ppm	-0.5555573	-0.5555537	0.51 ppm	0.55 ppm	PASS 15.64 %
-0.6000000	-0.6000000	<b>-0.6000003</b>	2.73 ppm	-0.600002	-0.599998	0.46 ppm	0.55 ppm	PASS 13.97 %
-0.6666666	-0.6666666	<b>-0.6666669</b>	2.73 ppm	-0.6666688	-0.6666644	0.50 ppm	0.55 ppm	PASS 15.32 %
-0.7000000	-0.7000000	<b>-0.7000003</b>	2.73 ppm	-0.7000023	-0.6999977	0.49 ppm	0.55 ppm	PASS 14.81 %
-0.7777777	-0.7777777	<b>-0.7777781</b>	2.73 ppm	-0.7777803	-0.7777751	0.51 ppm	0.55 ppm	PASS 15.68 %
-0.8000000	-0.8000000	<b>-0.8000004</b>	2.73 ppm	-0.8000026	-0.7999974	0.46 ppm	0.55 ppm	PASS 13.91 %
-0.8888888	-0.8888888	<b>-0.8888891</b>	2.73 ppm	-0.8888917	-0.8888859	0.39 ppm	0.55 ppm	PASS 11.83 %
-0.9000000	-0.9000000	<b>-0.9000004</b>	2.73 ppm	-0.900003	-0.899997	0.46 ppm	0.55 ppm	PASS 14.06 %
-0.9999999	-0.9999999	<b>-1.0000003</b>	2.73 ppm	-1.000003	-0.9999966	0.41 ppm	0.55 ppm	PASS 12.50 %
-1.0999999	-1.0999999	<b>-1.1000004</b>	2.73 ppm	-1.100004	-1.099996	0.43 ppm	0.55 ppm	PASS 13.17 %
DCV Linearity	10V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10.250000	10.250000	<b>10.2500026</b>	1.04 ppm	10.24998	10.25002	0.25 ppm	0.55 ppm	PASS 15.95 %
10.000000	10.000000	<b>10.0000022</b>	1.05 ppm	9.999984	10.00002	0.22 ppm	0.55 ppm	PASS 13.75 %
9.750000	9.750000	<b>9.7500021</b>	1.06 ppm	9.749984	9.750016	0.22 ppm	0.55 ppm	PASS 13.38 %
9.500000	9.500000	<b>9.5000021</b>	1.06 ppm	9.499985	9.500015	0.22 ppm	0.55 ppm	PASS 13.73 %
9.250000	9.250000	<b>9.2500024</b>	1.07 ppm	9.249985	9.250015	0.26 ppm	0.55 ppm	PASS 16.02 %
9.000000	9.000000	<b>9.0000022</b>	1.08 ppm	8.999985	9.000015	0.24 ppm	0.55 ppm	PASS 15.00 %
8.750000	8.750000	<b>8.7500012</b>	1.09 ppm	8.749986	8.750014	0.14 ppm	0.55 ppm	PASS 8.36 %
8.500000	8.500000	<b>8.5000014</b>	1.09 ppm	8.499986	8.500014	0.16 ppm	0.55 ppm	PASS 10.04 %
8.250000	8.250000	<b>8.2500014</b>	1.10 ppm	8.249986	8.250014	0.17 ppm	0.55 ppm	PASS 10.28 %
8.000000	8.000000	<b>8.0000018</b>	1.11 ppm	7.999987	8.000013	0.22 ppm	0.55 ppm	PASS 13.55 %
7.750000	7.750000	<b>7.7500016</b>	1.12 ppm	7.749987	7.750013	0.21 ppm	0.55 ppm	PASS 12.36 %
7.500000	7.500000	<b>7.5000014</b>	1.13 ppm	7.499987	7.500013	0.19 ppm	0.55 ppm	PASS 11.11 %
7.250000	7.250000	<b>7.2500007</b>	1.14 ppm	7.249988	7.250012	0.10 ppm	0.55 ppm	PASS 5.71 %
7.000000	7.000000	<b>7.0000013</b>	1.16 ppm	6.999988	7.000012	0.19 ppm	0.55 ppm	PASS 10.86 %
6.750000	6.750000	<b>6.7500014</b>	1.17 ppm	6.749988	6.750012	0.21 ppm	0.55 ppm	PASS 12.06 %

6.500000	6.500000	<b>6.5000013</b>	1.18 ppm	6.499989	6.500011	0.20 ppm	0.55 ppm	PASS 11.56 %
6.250000	6.250000	<b>6.2500008</b>	1.20 ppm	6.249989	6.250011	0.13 ppm	0.55 ppm	PASS 7.31 %
6.000000	6.000000	<b>6.0000002</b>	1.22 ppm	5.999989	6.000011	0.03 ppm	0.55 ppm	PASS 1.88 %
5.750000	5.750000	<b>5.7500006</b>	1.23 ppm	5.74999	5.75001	0.10 ppm	0.55 ppm	PASS 5.86 %
5.500000	5.500000	<b>5.5000011</b>	1.25 ppm	5.49999	5.50001	0.20 ppm	0.55 ppm	PASS 11.11 %
5.250000	5.250000	<b>5.2500011</b>	1.28 ppm	5.24999	5.25001	0.21 ppm	0.55 ppm	PASS 11.45 %
5.000000	5.000000	<b>5.0000003</b>	1.30 ppm	4.999991	5.000009	0.06 ppm	0.55 ppm	PASS 3.24 %
4.750000	4.750000	<b>4.7499999</b>	1.33 ppm	4.749991	4.750009	-0.02 ppm	0.55 ppm	PASS 1.12 %
4.500000	4.500000	<b>4.5000001</b>	1.36 ppm	4.499991	4.500009	0.02 ppm	0.55 ppm	PASS 1.16 %
4.250000	4.250000	<b>4.2500004</b>	1.39 ppm	4.249992	4.250008	0.09 ppm	0.55 ppm	PASS 4.85 %
4.000000	4.000000	<b>4.0000002</b>	1.42 ppm	3.999992	4.000008	0.05 ppm	0.55 ppm	PASS 2.54 %
3.750000	3.750000	<b>3.7500000</b>	1.47 ppm	3.749992	3.750008	0.00 ppm	0.55 ppm	PASS 0.00 %
3.500000	3.500000	<b>3.4999994</b>	1.51 ppm	3.499993	3.500007	-0.17 ppm	0.55 ppm	PASS 8.32 %
3.250000	3.250000	<b>3.2499997</b>	1.57 ppm	3.249993	3.250007	-0.09 ppm	0.55 ppm	PASS 4.35 %
3.000000	3.000000	<b>2.9999997</b>	1.63 ppm	2.999993	3.000007	-0.10 ppm	0.55 ppm	PASS 4.59 %
2.750000	2.750000	<b>2.7499997</b>	1.71 ppm	2.749994	2.750006	-0.11 ppm	0.55 ppm	PASS 4.83 %
2.500000	2.500000	<b>2.4999996</b>	1.80 ppm	2.499994	2.500006	-0.16 ppm	0.55 ppm	PASS 6.81 %
2.250000	2.250000	<b>2.2499991</b>	1.91 ppm	2.249994	2.250006	-0.40 ppm	0.55 ppm	PASS 16.26 %
2.000000	2.000000	<b>1.9999988</b>	2.05 ppm	1.999995	2.000005	-0.60 ppm	0.55 ppm	PASS 23.08 %
1.750000	1.750000	<b>1.7499994</b>	2.23 ppm	1.749995	1.750005	-0.34 ppm	0.55 ppm	PASS 12.33 %
1.500000	1.500000	<b>1.4999988</b>	2.47 ppm	1.499995	1.500005	-0.77 ppm	0.55 ppm	PASS 25.39 %
1.250000	1.250000	<b>1.2499990</b>	2.80 ppm	1.249996	1.250004	-0.80 ppm	0.55 ppm	PASS 23.88 %
1.000000	1.000000	<b>0.9999988</b>	3.30 ppm	0.9999961	1.000004	-1.20 ppm	0.55 ppm	PASS 31.17 %
0.750000	0.750000	<b>0.7499987</b>	4.13 ppm	0.7499965	0.7500035	-1.73 ppm	0.55 ppm	PASS 37.04 %
0.500000	0.500000	<b>0.4999989</b>	5.80 ppm	0.4999968	0.5000032	-2.20 ppm	0.55 ppm	PASS 34.65 %
0.250000	0.250000	<b>0.2499983</b>	10.80 ppm	0.2499972	0.2500028	-6.80 ppm	0.55 ppm	PASS 59.91 %
0.100000	0.100000	<b>0.0999984</b>	25.80 ppm	0.09999737	0.1000026	-16.00 ppm	0.55 ppm	PASS 60.72 %
-0.100000	-0.100000	<b>-0.1000018</b>	25.80 ppm	-0.1000026	-0.09999737	18.00 ppm	0.55 ppm	PASS 68.31 %
-0.250000	-0.250000	<b>-0.2500016</b>	10.80 ppm	-0.2500028	-0.2499972	6.40 ppm	0.55 ppm	PASS 56.39 %
-0.500000	-0.500000	<b>-0.5000021</b>	5.80 ppm	-0.5000032	-0.4999968	4.20 ppm	0.55 ppm	PASS 66.14 %
-0.750000	-0.750000	<b>-0.7500019</b>	4.13 ppm	-0.7500035	-0.7499965	2.53 ppm	0.55 ppm	PASS 54.13 %
-1.000000	-1.000000	<b>-1.0000018</b>	3.30 ppm	-1.000004	-0.9999961	1.75 ppm	0.55 ppm	PASS 45.45 %
-1.250000	-1.250000	<b>-1.2500020</b>	2.80 ppm	-1.250004	-1.249996	1.60 ppm	0.55 ppm	PASS 47.76 %
-1.500000	-1.500000	<b>-1.5000023</b>	2.47 ppm	-1.500005	-1.499995	1.57 ppm	0.55 ppm	PASS 51.88 %
-1.750000	-1.750000	<b>-1.7500022</b>	2.23 ppm	-1.750005	-1.749995	1.26 ppm	0.55 ppm	PASS 45.22 %
-2.000000	-2.000000	<b>-2.0000022</b>	2.05 ppm	-2.000005	-1.999995	1.08 ppm	0.55 ppm	PASS 41.35 %
-2.250000	-2.250000	<b>-2.2500026</b>	1.91 ppm	-2.250006	-2.249994	1.13 ppm	0.55 ppm	PASS 46.07 %
-2.500000	-2.500000	<b>-2.5000027</b>	1.80 ppm	-2.500006	-2.499994	1.08 ppm	0.55 ppm	PASS 45.96 %
-2.750000	-2.750000	<b>-2.7500023</b>	1.71 ppm	-2.750006	-2.749994	0.85 ppm	0.55 ppm	PASS 37.81 %
-3.000000	-3.000000	<b>-3.0000026</b>	1.63 ppm	-3.000007	-2.999993	0.85 ppm	0.55 ppm	PASS 38.99 %
-3.250000	-3.250000	<b>-3.2500031</b>	1.57 ppm	-3.250007	-3.249993	0.94 ppm	0.55 ppm	PASS 44.27 %
-3.500000	-3.500000	<b>-3.5000028</b>	1.51 ppm	-3.500007	-3.499993	0.80 ppm	0.55 ppm	PASS 38.83 %
-3.750000	-3.750000	<b>-3.7500027</b>	1.47 ppm	-3.750008	-3.749992	0.72 ppm	0.55 ppm	PASS 35.64 %
-4.000000	-4.000000	<b>-4.0000031</b>	1.42 ppm	-4.000008	-3.999992	0.76 ppm	0.55 ppm	PASS 38.71 %
-4.250000	-4.250000	<b>-4.2500031</b>	1.39 ppm	-4.250008	-4.249992	0.72 ppm	0.55 ppm	PASS 36.99 %
-4.500000	-4.500000	<b>-4.5000033</b>	1.36 ppm	-4.500009	-4.499991	0.73 ppm	0.55 ppm	PASS 38.39 %
-4.750000	-4.750000	<b>-4.7500027</b>	1.33 ppm	-4.750009	-4.749991	0.57 ppm	0.55 ppm	PASS 30.24 %
-5.000000	-5.000000	<b>-5.0000031</b>	1.30 ppm	-5.000009	-4.999991	0.62 ppm	0.55 ppm	PASS 33.51 %
-5.250000	-5.250000	<b>-5.2500038</b>	1.28 ppm	-5.25001	-5.24999	0.72 ppm	0.55 ppm	PASS 39.55 %
-5.500000	-5.500000	<b>-5.5000034</b>	1.25 ppm	-5.50001	-5.49999	0.61 ppm	0.55 ppm	PASS 33.84 %
-5.750000	-5.750000	<b>-5.7500030</b>	1.23 ppm	-5.75001	-5.74999	0.52 ppm	0.55 ppm	PASS 29.31 %
-6.000000	-6.000000	<b>-6.0000031</b>	1.22 ppm	-6.000011	-5.999989	0.52 ppm	0.55 ppm	PASS 29.19 %
-6.250000	-6.250000	<b>-6.2500036</b>	1.20 ppm	-6.250011	-6.249989	0.58 ppm	0.55 ppm	PASS 32.91 %
-6.500000	-6.500000	<b>-6.5000036</b>	1.18 ppm	-6.500011	-6.499989	0.55 ppm	0.55 ppm	PASS 32.01 %
-6.750000	-6.750000	<b>-6.7500035</b>	1.17 ppm	-6.750012	-6.749988	0.52 ppm	0.55 ppm	PASS 30.15 %
-7.000000	-7.000000	<b>-7.0000036</b>	1.16 ppm	-7.000012	-6.999988	0.51 ppm	0.55 ppm	PASS 30.08 %
-7.250000	-7.250000	<b>-7.2500042</b>	1.14 ppm	-7.250012	-7.249988	0.57 ppm	0.55 ppm	PASS 33.87 %
-7.500000	-7.500000	<b>-7.5000042</b>	1.13 ppm	-7.500013	-7.499987	0.55 ppm	0.55 ppm	PASS 32.94 %
-7.750000	-7.750000	<b>-7.7500044</b>	1.12 ppm	-7.750013	-7.749987	0.57 ppm	0.55 ppm	PASS 34.00 %
-8.000000	-8.000000	<b>-8.0000043</b>	1.11 ppm	-8.000013	-7.999987	0.54 ppm	0.55 ppm	PASS 32.38 %
-8.250000	-8.250000	<b>-8.2500048</b>	1.10 ppm	-8.250014	-8.249986	0.59 ppm	0.55 ppm	PASS 35.63 %
-8.500000	-8.500000	<b>-8.5000047</b>	1.09 ppm	-8.500014	-8.499986	0.56 ppm	0.55 ppm	PASS 34.07 %
-8.750000	-8.750000	<b>-8.7500048</b>	1.09 ppm	-8.750014	-8.749986	0.55 ppm	0.55 ppm	PASS 33.80 %
-9.000000	-9.000000	<b>-9.0000055</b>	1.08 ppm	-9.000015	-8.999985	0.61 ppm	0.55 ppm	PASS 37.49 %
-9.250000	-9.250000	<b>-9.2500057</b>	1.07 ppm	-9.250015	-9.249985	0.61 ppm	0.55 ppm	PASS 37.70 %

-9.500000	-9.500000	<b>-9.5000055</b>	1.06 ppm	-9.500015	-9.499985	0.58 ppm	0.55 ppm	PASS 35.96 %
-9.750000	-9.750000	<b>-9.7500056</b>	1.06 ppm	-9.750016	-9.749984	0.57 ppm	0.55 ppm	PASS 35.67 %
-10.000000	-10.000000	<b>-10.0000056</b>	1.05 ppm	-10.00002	-9.999984	0.56 ppm	0.55 ppm	PASS 34.69 %
-10.250000	-10.250000	<b>-10.2500057</b>	1.04 ppm	-10.25002	-10.24998	0.55 ppm	0.55 ppm	PASS 34.67 %
DCV Linearity	100V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
100.99999	100.99999	<b>100.9999900</b>	2.73 ppm	100.99966	101.00032	0.00 ppm	0.55 ppm	PASS 0.00 %
100.10101	100.10101	<b>100.1009990</b>	2.73 ppm	100.10068	100.10134	-0.11 ppm	0.55 ppm	PASS 2.45 %
100.00000	100.00000	<b>99.9999975</b>	2.73 ppm	99.999672	100.00033	-0.02 ppm	0.55 ppm	PASS 0.76 %
99.99999	99.99999	<b>99.9999760</b>	2.73 ppm	99.999662	100.00032	-0.14 ppm	0.55 ppm	PASS 4.27 %
90.00000	90.00000	<b>89.9999795</b>	2.73 ppm	89.999705	90.000295	-0.23 ppm	0.55 ppm	PASS 6.94 %
88.88888	88.88888	<b>88.8888690</b>	2.73 ppm	88.888588	88.889172	-0.12 ppm	0.55 ppm	PASS 3.77 %
80.00000	80.00000	<b>79.9999930</b>	2.73 ppm	79.999738	80.000262	-0.09 ppm	0.55 ppm	PASS 2.67 %
77.77777	77.77777	<b>77.7777515</b>	2.73 ppm	77.777515	77.778025	-0.24 ppm	0.55 ppm	PASS 7.25 %
70.00000	70.00000	<b>69.9999815</b>	2.73 ppm	69.99977	70.00023	-0.26 ppm	0.55 ppm	PASS 8.06 %
66.66666	66.66666	<b>66.6666500</b>	2.73 ppm	66.666441	66.666879	-0.15 ppm	0.55 ppm	PASS 4.57 %
60.00000	60.00000	<b>59.9999930</b>	2.73 ppm	59.999803	60.000197	-0.12 ppm	0.55 ppm	PASS 3.56 %
55.55555	55.55555	<b>55.5555315</b>	2.73 ppm	55.555368	55.555732	-0.33 ppm	0.55 ppm	PASS 10.15 %
50.00000	50.00000	<b>49.9999785</b>	2.73 ppm	49.999836	50.000164	-0.43 ppm	0.55 ppm	PASS 13.11 %
44.44444	44.44444	<b>44.4444215</b>	2.73 ppm	44.444294	44.444586	-0.42 ppm	0.55 ppm	PASS 12.69 %
40.00000	40.00000	<b>39.9999890</b>	2.73 ppm	39.999869	40.000131	-0.27 ppm	0.55 ppm	PASS 8.38 %
33.33333	33.33333	<b>33.3333045</b>	2.73 ppm	33.333221	33.333439	-0.77 ppm	0.55 ppm	PASS 23.32 %
30.00000	30.00000	<b>29.9999750</b>	2.73 ppm	29.999902	30.000098	-0.83 ppm	0.55 ppm	PASS 25.41 %
22.22222	22.22222	<b>22.2221975</b>	2.73 ppm	22.222147	22.222293	-1.01 ppm	0.55 ppm	PASS 30.87 %
20.00000	20.00000	<b>19.9999790</b>	2.73 ppm	19.999934	20.000066	-1.05 ppm	0.55 ppm	PASS 32.01 %
11.11111	11.11111	<b>11.1110880</b>	2.73 ppm	11.111075	11.111147	-2.07 ppm	0.55 ppm	PASS 63.11 %
10.00000	10.00000	<b>9.9999670</b>	3.86 ppm	9.999959	10.000044	-3.30 ppm	0.55 ppm	PASS 74.83 %
9.87654	9.87654	<b>9.8765090</b>	7.27 ppm	9.8764658	9.8766202	-3.44 ppm	0.55 ppm	PASS 44.02 %
-9.87654	-9.87654	<b>-9.8765745</b>	7.27 ppm	-9.8766202	-9.8764658	3.19 ppm	0.55 ppm	PASS 40.78 %
-10.00000	-10.00000	<b>-10.0000330</b>	3.86 ppm	-10.000044	-9.9999559	3.30 ppm	0.55 ppm	PASS 74.83 %
-11.11111	-11.11111	<b>-11.1111495</b>	2.73 ppm	-11.111147	-11.111075	3.47 ppm	0.55 ppm	FAIL 105.64 %
-20.00000	-20.00000	<b>-20.0000460</b>	2.73 ppm	-20.000066	-19.999934	2.30 ppm	0.55 ppm	PASS 70.12 %
-22.22222	-22.22222	<b>-22.2222655</b>	2.73 ppm	-22.222293	-22.222147	2.05 ppm	0.55 ppm	PASS 62.42 %
-30.00000	-30.00000	<b>-30.0000465</b>	2.73 ppm	-30.000098	-29.999902	1.55 ppm	0.55 ppm	PASS 47.26 %
-33.33333	-33.33333	<b>-33.3333835</b>	2.73 ppm	-33.333439	-33.333221	1.61 ppm	0.55 ppm	PASS 48.93 %
-40.00000	-40.00000	<b>-40.0000585</b>	2.73 ppm	-40.000131	-39.999869	1.46 ppm	0.55 ppm	PASS 44.59 %
-44.44444	-44.44444	<b>-44.4444990</b>	2.73 ppm	-44.444586	-44.444294	1.33 ppm	0.55 ppm	PASS 40.47 %
-50.00000	-50.00000	<b>-50.0000590</b>	2.73 ppm	-50.000164	-49.999836	1.18 ppm	0.55 ppm	PASS 35.98 %
-55.55555	-55.55555	<b>-55.5556135</b>	2.73 ppm	-55.555732	-55.555368	1.14 ppm	0.55 ppm	PASS 34.85 %
-60.00000	-60.00000	<b>-60.0000695</b>	2.73 ppm	-60.000197	-59.999803	1.16 ppm	0.55 ppm	PASS 35.32 %
-66.66666	-66.66666	<b>-66.6667310</b>	2.73 ppm	-66.666879	-66.666441	1.07 ppm	0.55 ppm	PASS 32.47 %
-70.00000	-70.00000	<b>-70.0000680</b>	2.73 ppm	-70.00023	-69.99977	0.97 ppm	0.55 ppm	PASS 29.62 %
-77.77777	-77.77777	<b>-77.7778495</b>	2.73 ppm	-77.778025	-77.777515	1.02 ppm	0.55 ppm	PASS 31.16 %
-80.00000	-80.00000	<b>-80.0000815</b>	2.73 ppm	-80.000262	-79.999738	1.02 ppm	0.55 ppm	PASS 31.06 %
-88.88888	-88.88888	<b>-88.8889585</b>	2.73 ppm	-88.889172	-88.888588	0.88 ppm	0.55 ppm	PASS 26.92 %
-90.00000	-90.00000	<b>-90.0000760</b>	2.73 ppm	-90.000295	-89.999705	0.84 ppm	0.55 ppm	PASS 25.75 %
-99.99999	-99.99999	<b>-100.0000805</b>	2.73 ppm	-100.00032	-99.999662	0.91 ppm	0.55 ppm	PASS 43.51 %
-100.00000	-100.00000	<b>-100.0000930</b>	2.73 ppm	-100.00033	-99.999672	0.93 ppm	0.55 ppm	PASS 44.71 %
-100.10101	-100.10101	<b>-100.1010905</b>	2.73 ppm	-100.10134	-100.10068	0.80 ppm	0.55 ppm	PASS 38.69 %
-100.99999	-100.99999	<b>-101.0000720</b>	2.73 ppm	-101.00032	-100.99966	0.81 ppm	0.55 ppm	PASS 39.26 %

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	0.9998017	<b>0.9997656</b>	32.0 ppm	9.9976571E-01	9.9983769E-01	-36.107 ppm	4.0 ppm	<b>FAIL</b> 100.30 %
TrueOhm 1.9 Ω	1.8995064	<b>1.8994554</b>	25.0 ppm	1.8994513E+00	1.8995615E+00	-26.849 ppm	4.0 ppm	<b>PASS</b> 92.58 %
TrueOhm 10 Ω	9.999933	<b>9.999902</b>	5.0 ppm	9.9998430E+00	1.0000023E+01	-3.100 ppm	4.0 ppm	<b>PASS</b> 34.44 %
TrueOhm 19 Ω	18.999097	<b>18.999073</b>	4.0 ppm	1.8998987E+01	1.8999207E+01	-1.263 ppm	1.8 ppm	<b>PASS</b> 21.78 %
TrueOhm 100 Ω	100.00183	<b>100.00122</b>	1.7 ppm	1.0000148E+02	1.0000218E+02	-6.080 ppm	1.8 ppm	<b>FAIL</b> 173.71 %
TrueOhm 190 Ω	189.99505	<b>189.99397</b>	1.7 ppm	1.8999448E+02	1.8999562E+02	-5.669 ppm	1.3 ppm	<b>FAIL</b> 188.95 %
TrueOhm 1.0 kΩ	999.9918	<b>999.98624</b>	1.7 ppm	9.9998880E+02	9.9999480E+02	-5.560 ppm	1.3 ppm	<b>FAIL</b> 185.33 %
TrueOhm 1.9 kΩ	1899.9976	<b>1899.9876</b>	1.7 ppm	1.8999919E+03	1.9000033E+03	-5.289 ppm	1.3 ppm	<b>FAIL</b> 176.32 %
TrueOhm 10 kΩ	10000.084	<b>10000.057</b>	1.6 ppm	1.0000055E+04	1.0000113E+04	-2.730 ppm	1.3 ppm	<b>PASS</b> 94.14 %
TrueOhm 19 kΩ	18999.701	<b>18999.658</b>	1.7 ppm	1.8999644E+04	1.8999758E+04	-2.279 ppm	1.3 ppm	<b>PASS</b> 75.97 %
TrueOhm 100 kΩ	100001.4	<b>100001.4</b>	2.0 ppm	1.0000107E+05	1.0000173E+05	0.010 ppm	1.3 ppm	<b>PASS</b> 0.30 %
TrueOhm 190 kΩ	189992.98	<b>189993.08</b>	2.0 ppm	1.8999209E+05	1.8999387E+05	0.537 ppm	2.7 ppm	<b>PASS</b> 11.42 %
1.0 MΩ	1000003.1	<b>1000001</b>	2.5 ppm	9.9999790E+05	1.0000083E+06	-2.110 ppm	2.7 ppm	<b>PASS</b> 40.58 %
1.9 MΩ	1899959.2	<b>1899961.2</b>	3.0 ppm	1.8999383E+06	1.8999801E+06	1.037 ppm	8.0 ppm	<b>PASS</b> 9.43 %
10 MΩ	9999407	<b>9999601.4</b>	10.0 ppm	9.9992270E+06	9.9995870E+06	19.441 ppm	8.0 ppm	<b>FAIL</b> 108.01 %
19 MΩ	18999096	<b>18999505</b>	20.0 ppm	1.8997291E+07	1.9000901E+07	21.540 ppm	75.0 ppm	<b>PASS</b> 22.67 %

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 0.0000009 Ω	5.000e-05 Ω	-5e-05	5e-05	N/A	4.0000e-06 Ω	PASS
TrueOhm 100 Ω	Range -0.0000170 Ω	5.500e-04 Ω	-0.00055	0.00055	N/A	1.3000e-06 Ω	PASS
TrueOhm 1.0 kΩ	Range 0.0000100 Ω	5.500e-03 Ω	-0.0055	0.0055	N/A	1.3000e-06 Ω	PASS
TrueOhm 10 kΩ	Range -0.0002000 Ω	5.500e-02 Ω	-0.055	0.055	N/A	1.3000e-06 Ω	PASS
TrueOhm 100 kΩ	Range 0.0010000 Ω	5.500e-01 Ω	-0.55	0.55	N/A	1.3000e-06 Ω	PASS
1.0 MΩ	Range -0.0020000 Ω	5.500e+00 Ω	-5.5	5.5	N/A	1.3000e-06 Ω	PASS
10 MΩ	Range -0.0060000 Ω	5.500e+01 Ω	-55	55	N/A	1.3000e-06 Ω	PASS
100 MΩ	Range -0.0060000 Ω	5.500e+02 Ω	-550	550	N/A	1.3000e-06 Ω	PASS
1 GΩ	Range 0.0020000 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
1.0 MΩ	Range -0.2000000 Ω	5.500e+00 Ω	-5.5	5.5	N/A	1.3000e-06 Ω	PASS
10 MΩ	Range -10.8000000 Ω	5.500e+01 Ω	-55	55	N/A	1.3000e-06 Ω	PASS
100 MΩ	Range -10.9000000 Ω	5.500e+02 Ω	-550	550	N/A	1.3000e-06 Ω	PASS
1 GΩ	Range -10.5000000 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	<b>0.999683</b>	129.09	0.99937091	1.00062909	VAC	-317.000 ppm	500.0 ppm	PASS 50.39 %
1.0 VAC @ 1.0 MHz	1.0	<b>1.009713</b>	0.2500 %	0.9845	1.0155	VAC	0.9713 %	1.3000 %	PASS 62.66 %
1.9 VAC @ 10 Hz	1.9	<b>1.90388</b>	73.18	1.899613958	1.900386042	VAC	2042.105 ppm	130.0 ppm	FAIL 1005.07 %
1.9 VAC @ 200 Hz	1.9	<b>1.900012</b>	73.18	1.899784958	1.900215042	VAC	6.316 ppm	40.0 ppm	PASS 5.58 %
1.9 VAC @ 500 Hz	1.9	<b>1.900032</b>	73.18	1.899784958	1.900215042	VAC	16.842 ppm	40.0 ppm	PASS 14.88 %
1.9 VAC @ 50.0 kHz	1.9	<b>1.899425</b>	129.09	1.899089729	1.900910271	VAC	-302.632 ppm	350.0 ppm	PASS 63.17 %
1.9 VAC @ 1.0 MHz	1.9	<b>1.914847</b>	0.3000 %	1.8658	1.9342	VAC	0.7814 %	1.5000 %	PASS 43.41 %
10.0 VAC @ 10 Hz	10.0	<b>10.04021</b>	73.18	9.9979682	10.0020318	VAC	4021.000 ppm	130.0 ppm	FAIL 1979.03 %
10.0 VAC @ 200 Hz	10.0	<b>10</b>	73.18	9.9988682	10.0011318	VAC	0.000 ppm	40.0 ppm	PASS 0.00 %
10.0 VAC @ 500 Hz	10.0	<b>10.0001</b>	73.18	9.9988682	10.0011318	VAC	10.000 ppm	40.0 ppm	PASS 8.84 %
10.0 VAC @ 50.0 kHz	10.0	<b>9.99741</b>	129.09	9.9952091	10.0047909	VAC	-259.000 ppm	350.0 ppm	PASS 54.06 %
10.0 VAC @ 1.0 MHz	10.0	<b>10.06454</b>	0.3000 %	9.82	10.18	VAC	0.6454 %	1.5000 %	PASS 35.86 %
19 VAC @ 10 Hz	19	<b>19.06628</b>	73.18	18.99613958	19.00386042	VAC	3488.421 ppm	130.0 ppm	FAIL 1716.91 %
19 VAC @ 200 Hz	19	<b>19.00018</b>	73.18	18.99784958	19.00215042	VAC	9.474 ppm	40.0 ppm	PASS 8.37 %
19 VAC @ 500 Hz	19	<b>19.00029</b>	73.18	18.99784958	19.00215042	VAC	15.263 ppm	40.0 ppm	PASS 13.49 %
19 VAC @ 50.0 kHz	19	<b>18.9948</b>	129.09	18.99089729	19.00910271	VAC	-273.684 ppm	350.0 ppm	PASS 57.13 %
19 VAC @ 1.0 MHz	19	<b>19.07773</b>	0.3000 %	18.658	19.342	VAC	0.4091 %	1.5000 %	PASS 22.73 %

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
0.1 V AC+DC @ 50 Hz	0.1000048	0.0121 %	0.099983	0.100017	0.0048 %	0.0050 %	PASS 28.01 %
0.1 V AC+DC @ 100 Hz	0.1000134	0.0121 %	0.099983	0.100017	0.0134 %	0.0050 %	PASS 78.20 %
0.1 V AC+DC @ 1.0 kHz	0.1000003	0.0121 %	0.099983	0.100017	0.0003 %	0.0050 %	PASS 1.75 %
0.1 V AC+DC @ 10.0 kHz	0.0999949	0.0121 %	0.099960	0.100040	-0.0051 %	0.0280 %	PASS 12.71 %
0.1 V AC+DC @ 20.0 kHz	0.0999835	0.0121 %	0.099960	0.100040	-0.0165 %	0.0280 %	PASS 41.11 %
0.1 V AC+DC @ 50.0 kHz	0.0999706	0.0256 %	0.099924	0.100076	-0.0294 %	0.0500 %	PASS 38.87 %
0.1 V AC+DC @ 100.0 kHz	0.0999498	0.0591 %	0.099891	0.100109	-0.0502 %	0.0500 %	PASS 46.02 %
0.1 V AC+DC @ 300.0 kHz	0.0996086	0.0964 %	0.099554	0.100446	-0.3914 %	0.3500 %	PASS 87.69 %
0.1 V AC+DC @ 500.0 kHz	0.098552	0.1500 %	0.098550	0.101450	-1.4480 %	1.3000 %	PASS 99.86 %
0.1 V AC+DC @ 1.0 MHz	0.0907862	0.3000 %	0.098400	0.101600	-9.2138 %	1.3000 %	FAIL 575.86 %
0.19 V AC+DC @ 50 Hz	0.1900131	0.0121 %	0.189967	0.190033	0.0069 %	0.0050 %	PASS 40.24 %
0.19 V AC+DC @ 100 Hz	0.1900291	0.0121 %	0.189967	0.190033	0.0153 %	0.0050 %	PASS 89.38 %
0.19 V AC+DC @ 1.0 kHz	0.190005	0.0121 %	0.189967	0.190033	0.0026 %	0.0050 %	PASS 15.36 %
0.19 V AC+DC @ 10.0 kHz	0.1899943	0.0121 %	0.189924	0.190076	-0.0030 %	0.0280 %	PASS 7.47 %
0.19 V AC+DC @ 20.0 kHz	0.189975	0.0121 %	0.189924	0.190076	-0.0132 %	0.0280 %	PASS 32.78 %
0.19 V AC+DC @ 50.0 kHz	0.1899531	0.0256 %	0.189856	0.190144	-0.0247 %	0.0500 %	PASS 32.64 %
0.19 V AC+DC @ 100.0 kHz	0.1899455	0.0591 %	0.189793	0.190207	-0.0287 %	0.0500 %	PASS 26.29 %
0.19 V AC+DC @ 300.0 kHz	0.1894936	0.0964 %	0.189152	0.190848	-0.2665 %	0.3500 %	PASS 59.71 %
0.19 V AC+DC @ 500.0 kHz	0.1862387	0.1500 %	0.187245	0.192755	-1.9796 %	1.3000 %	FAIL 136.53 %
0.19 V AC+DC @ 1.0 MHz	0.1687731	0.3000 %	0.186960	0.193040	-11.1721 %	1.3000 %	FAIL 698.25 %
1.0 V AC+DC @ 50 Hz	1.000047	0.0050 %	0.999910	1.000090	0.0047 %	0.0040 %	PASS 52.48 %
1.0 V AC+DC @ 100 Hz	1.000145	0.0050 %	0.999910	1.000090	0.0145 %	0.0040 %	FAIL 161.92 %
1.0 V AC+DC @ 1.0 kHz	1.000021	0.0050 %	0.999910	1.000090	0.0021 %	0.0040 %	PASS 23.45 %
1.0 V AC+DC @ 10.0 kHz	0.999969	0.0050 %	0.999830	1.000170	-0.0031 %	0.0120 %	PASS 18.28 %
1.0 V AC+DC @ 20.0 kHz	0.999874	0.0050 %	0.999830	1.000170	-0.0126 %	0.0120 %	PASS 74.31 %
1.0 V AC+DC @ 50.0 kHz	0.999708	0.0085 %	0.999565	1.000435	-0.0292 %	0.0350 %	PASS 67.06 %
1.0 V AC+DC @ 100.0 kHz	0.999573	0.0138 %	0.997362	1.002638	-0.0427 %	0.2500 %	PASS 16.19 %
1.0 V AC+DC @ 300.0 kHz	0.999728	0.0425 %	0.984575	1.015425	-0.0272 %	1.5000 %	PASS 1.76 %
1.0 V AC+DC @ 500.0 kHz	1.00079	0.1100 %	0.983900	1.016100	0.0790 %	1.5000 %	PASS 4.91 %
1.0 V AC+DC @ 1.0 MHz	1.009651	0.1800 %	0.983200	1.016800	0.9651 %	1.5000 %	PASS 57.45 %
1.9 V AC+DC @ 50 Hz	1.900159	0.0048 %	1.899832	1.900168	0.0084 %	0.0040 %	PASS 94.90 %
1.9 V AC+DC @ 100 Hz	1.900296	0.0048 %	1.899832	1.900168	0.0156 %	0.0040 %	FAIL 176.67 %
1.9 V AC+DC @ 1.0 kHz	1.900055	0.0048 %	1.899832	1.900168	0.0029 %	0.0040 %	PASS 32.83 %
1.9 V AC+DC @ 10.0 kHz	1.899959	0.0048 %	1.899680	1.900320	-0.0022 %	0.0120 %	PASS 12.83 %
1.9 V AC+DC @ 20.0 kHz	1.899771	0.0048 %	1.899680	1.900320	-0.0121 %	0.0120 %	PASS 71.67 %
1.9 V AC+DC @ 50.0 kHz	1.899436	0.0085 %	1.899173	1.900827	-0.0297 %	0.0350 %	PASS 68.17 %
1.9 V AC+DC @ 100.0 kHz	1.899085	0.0121 %	1.895019	1.904981	-0.0482 %	0.2500 %	PASS 18.37 %
1.9 V AC+DC @ 300.0 kHz	1.898759	0.0336 %	1.870861	1.929139	-0.0653 %	1.5000 %	PASS 4.26 %
1.9 V AC+DC @ 500.0 kHz	1.900067	0.1100 %	1.869410	1.930590	0.0035 %	1.5000 %	PASS 0.22 %
1.9 V AC+DC @ 1.0 MHz	1.91483	0.1700 %	1.868270	1.931730	0.7805 %	1.5000 %	PASS 46.74 %
10.0 V AC+DC @ 50 Hz	10.00057	0.0048 %	9.999118	10.000882	0.0057 %	0.0040 %	PASS 64.64 %
10.0 V AC+DC @ 100 Hz	10.00153	0.0048 %	9.999118	10.000882	0.0153 %	0.0040 %	FAIL 173.51 %
10.0 V AC+DC @ 1.0 kHz	10.0002	0.0048 %	9.999118	10.000882	0.0020 %	0.0040 %	PASS 22.68 %
10.0 V AC+DC @ 10.0 kHz	9.99959	0.0048 %	9.998318	10.001682	-0.0041 %	0.0120 %	PASS 24.38 %
10.0 V AC+DC @ 20.0 kHz	9.99884	0.0048 %	9.998318	10.001682	-0.0116 %	0.0120 %	PASS 68.97 %
10.0 V AC+DC @ 50.0 kHz	9.99741	0.0085 %	9.995646	10.004354	-0.0259 %	0.0350 %	PASS 59.48 %
10.0 V AC+DC @ 100.0 kHz	9.99544	0.0121 %	9.973786	10.026214	-0.0456 %	0.2500 %	PASS 17.40 %
10.0 V AC+DC @ 300.0 kHz	9.98619	0.0336 %	9.846636	10.153364	-0.1381 %	1.5000 %	PASS 9.00 %
10.0 V AC+DC @ 500.0 kHz	9.9871	0.1100 %	9.839000	10.161000	-0.1290 %	1.5000 %	PASS 8.01 %
10.0 V AC+DC @ 1.0 MHz	10.06471	0.1700 %	9.833000	10.167000	0.6471 %	1.5000 %	PASS 38.75 %
19 V AC+DC @ 50 Hz	19.00129	0.0060 %	18.998097	19.001903	0.0068 %	0.0040 %	PASS 67.77 %
19 V AC+DC @ 100 Hz	19.00304	0.0060 %	18.998097	19.001903	0.0160 %	0.0040 %	FAIL 159.71 %
19 V AC+DC @ 1.0 kHz	19.00043	0.0060 %	18.998097	19.001903	0.0023 %	0.0040 %	PASS 22.59 %
19 V AC+DC @ 10.0 kHz	18.99928	0.0060 %	18.996577	19.003423	-0.0038 %	0.0120 %	PASS 21.03 %
19 V AC+DC @ 20.0 kHz	18.99774	0.0060 %	18.996577	19.003423	-0.0119 %	0.0120 %	PASS 66.02 %
19 V AC+DC @ 50.0 kHz	18.99472	0.0060 %	18.992207	19.007793	-0.0278 %	0.0350 %	PASS 67.75 %
19 V AC+DC @ 100.0 kHz	18.99007	0.0174 %	18.949201	19.050799	-0.0523 %	0.2500 %	PASS 19.55 %
19 V AC+DC @ 300.0 kHz	18.96646	0.0991 %	18.696173	19.303827	-0.1765 %	1.5000 %	PASS 11.04 %
19 V AC+DC @ 500.0 kHz	18.96097	0.5200 %	18.616200	19.383800	-0.2054 %	1.5000 %	PASS 10.17 %
19 V AC+DC @ 1.0 MHz	19.07911	0.1700 %	18.682700	19.317300	0.4164 %	1.5000 %	PASS 24.93 %

100.0 V AC+DC @ 50 Hz	<b>100.0022</b>	0.0060 %	99.989982	100.010018	0.0022 %	0.0040 %	PASS 21.70 %
100.0 V AC+DC @ 100 Hz	<b>100.0111</b>	0.0060 %	99.989982	100.010018	0.0111 %	0.0040 %	FAIL 109.49 %
100.0 V AC+DC @ 1.0 kHz	<b>99.9988</b>	0.0060 %	99.989982	100.010018	-0.0012 %	0.0040 %	PASS 11.98 %
100.0 V AC+DC @ 10.0 kHz	<b>99.9957</b>	0.0060 %	99.981982	100.018018	-0.0043 %	0.0120 %	PASS 23.87 %
100.0 V AC+DC @ 20.0 kHz	<b>99.9902</b>	0.0060 %	99.981982	100.018018	-0.0098 %	0.0120 %	PASS 54.39 %
100.0 V AC+DC @ 50.0 kHz	<b>99.9771</b>	0.0095 %	99.955455	100.044545	-0.0229 %	0.0350 %	PASS 51.41 %
100.0 V AC+DC @ 100.0 kHz	<b>99.948</b>	0.0174 %	99.732636	100.267364	-0.0520 %	0.2500 %	PASS 19.45 %
190.0 V AC+DC @ 50 Hz	<b>190.0061</b>	0.0060 %	189.980966	190.019034	0.0032 %	0.0040 %	PASS 31.33 %
190.0 V AC+DC @ 100 Hz	<b>190.0217</b>	0.0060 %	189.980966	190.019034	0.0114 %	0.0040 %	FAIL 111.47 %
190.0 V AC+DC @ 1.0 kHz	<b>189.9981</b>	0.0060 %	189.980966	190.019034	-0.0010 %	0.0040 %	PASS 9.76 %
190.0 V AC+DC @ 10.0 kHz	<b>189.9923</b>	0.0060 %	189.965766	190.034234	-0.0041 %	0.0120 %	PASS 22.21 %
190.0 V AC+DC @ 20.0 kHz	<b>189.9813</b>	0.0060 %	189.965766	190.034234	-0.0098 %	0.0120 %	PASS 53.94 %
190.0 V AC+DC @ 50.0 kHz	<b>189.9539</b>	0.0095 %	189.915365	190.084635	-0.0243 %	0.0350 %	PASS 54.19 %
190.0 V AC+DC @ 100.0 kHz	<b>189.8893</b>	0.0174 %	189.492008	190.507992	-0.0583 %	0.2500 %	PASS 21.77 %
700.0 V AC+DC @ 50 Hz	<b>700.015</b>	0.0079 %	699.902952	700.097048	0.0021 %	0.0060 %	PASS 14.57 %
700.0 V AC+DC @ 100 Hz	<b>700.076</b>	0.0079 %	699.902952	700.097048	0.0109 %	0.0060 %	PASS 73.84 %
700.0 V AC+DC @ 1.0 kHz	<b>700.003</b>	0.0079 %	699.902952	700.097048	0.0004 %	0.0060 %	PASS 2.91 %

Test date	05 June 2019 19:30
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Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

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