

# Certificate of Calibration



Keysight Calibration

Certificate Number 1-5113983928-6

<b>Model Number</b>	B2912A	<b>Customer</b>	Keysight Technologies Deutschland GmbH
<b>Manufacturer</b>	Keysight Technologies Inc		Herrenberger Strasse 130
<b>Description</b>	Precision Source/Measure Unit, 2ch, 10fA resolution, 210V, 3A DC/10.5A pulse		71034 BOEBLINGEN
<b>Serial Number</b>	HERE SN		Germany
<b>Customer Asset No.</b>	- HERE ASSET ID -	<b>Location of Calibration</b>	Keysight Technologies
<b>Options Installed</b>	- HERE OPTIONS -		Deutschland GmbH
<b>Date of Calibration</b>	1 Mar 2021		Herrenberger Strasse 130
<b>Procedure</b>	STE-50114579-A.02.03		D-71034 Boeblingen
<b>Temperature</b>	(23 ± 5) °C		GERMANY
<b>Humidity</b>	(50 ± 30) %RH		

This certifies that the equipment has been calibrated using applicable Keysight Technologies procedures in compliance with a quality management system registered to ISO 9001:2015.

#### As Received Conditions

The measured values of the equipment were observed in specification at the points tested.

#### Action Taken

- No corrective actions were necessary.

#### As Completed Conditions

The measured values of the equipment were observed in specification at the points tested.

Keysight considers the uncertainties of measurements during the development of performance tests. In this report, conformance statements of "Passed" or "Failed" are determined by simple comparison of observed measurements to the warranted specifications.

#### Remarks or Special Requirements

This calibration report shall not be reproduced, except in full. The documented results relate to the equipment calibrated only.

The test limits stated in the report correspond to the published specifications of the equipment, at the points tested.  
This calibration report may refer to equipment manufactured by HP, Agilent and Keysight as being manufactured by Keysight Technologies.

Keysight Technologies  
Deutschland GmbH  
Herrenberger Strasse 130  
D-71034 Boeblingen  
GERMANY

A handwritten signature in black ink that reads "Edgar Leckel".

Edgar Leckel - European Operations Manager

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## Traceability Information

Technician ID 00126591

Measurements are traceable to the International System of Units (SI) via national metrology institutes ([www.keysight.com/find/NMI](http://www.keysight.com/find/NMI)) that are signatories to the CIPM Mutual Recognition Arrangement.

## Calibration Equipment Used

<u>Model Number</u>	<u>Model Description</u>	<u>Equipment ID</u>	<u>Cal Due Date</u>	<u>Certificate Number</u>
16353A	Standard resistor set for calibrating 4155/56/4070	UK16429	8 May 2021	1-xxxxxxxxxxx-1
16353J	Standard resistor, 10m Ohm	UK16238	12 Nov 2021	1-xxxxxxxxxxx-1
3458A	Digital multimeter, 8.5 digit	DE982R0900	7 Apr 2021	1-xxxxxxxxxxx-1

# Measurement Report

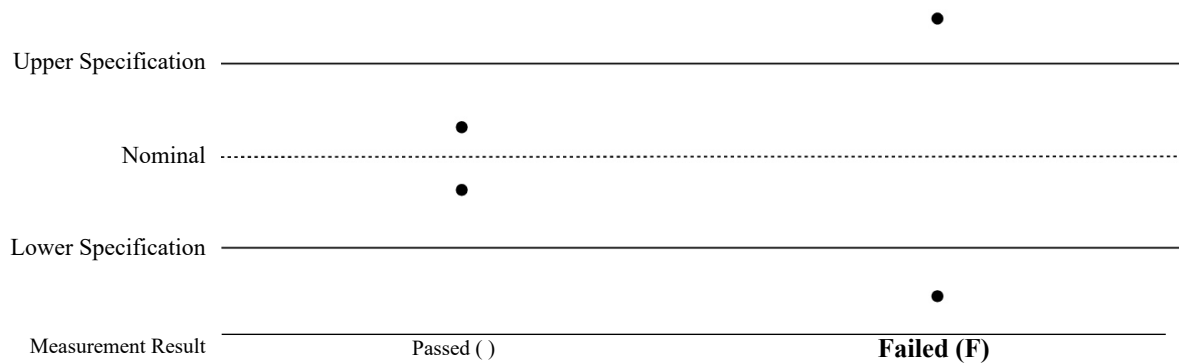
Certificate Number 1-5113983928-6

**Model Number** B2912A  
**Serial Number** HERE SN  
  
**Test Date** 28 Jan 2021  
  
**Test Program Name** AGT\_B290X\_1X, 5011-4579  
**Test Program Version** A.03.00  
**Test Executive** STE/9000, C.09.04W  
**Test Subsystem** MENDOR, B.06.34

**Note:** Traceability information can be found on the calibration certificate.

### Measurement results are reported as:

- Passed ( ) - The measured values of the equipment were observed in specification at the points tested.
- Failed (F) - One or more measured values of the equipment were observed out of specification at the points tested.



( ) This result is indicated on the measurement report as a blank space in the column labeled "Status" or "Sts".  
 Note: For more information on the level of risk such as false accept and false reject and statistical assumptions of these statements of conformity, please visit: [www.keysight.com/find/decisionrules](http://www.keysight.com/find/decisionrules).

## Calibration Test Results Summary

Test Name	As Received Status
CH1 VOLT MEAS AND OUTP ACCY	Passed
CH1 LOW CURR MEAS AND OUTP ACCY	Passed
CH1 MIDD CURR MEAS AND OUTP ACCY	Passed
CH1 HIGH CURR MEAS AND OUTP ACCY	Passed
CH2 VOLT MEAS AND OUTP ACCY	Passed
CH2 LOW CURR MEAS AND OUTP ACCY	Passed
CH2 MIDD CURR MEAS AND OUTP ACCY	Passed
CH2 HIGH CURR MEAS AND OUTP ACCY	Passed

## Functional Test Results Summary

The following functional test results are not part of an accredited delivery, even if they are part of an otherwise accredited calibration report.

The following tests document the functional verification of the instruments' non-warranted performance. Neither a statement of conformance or decision rule is used for a Functional Test, measurement uncertainties are only provided by exception. For a "Functional Test" the test results are reported as "As Expected" when showing expected performance and "Not As Expected" otherwise. "As Expected" results of individual test points are indicated in the measurement report by a blank space in the column labeled "Status" to allow easier recognition of any "Not As Expected" points. If a functional test result is reported as "Not As Expected", repair and/or adjustment is recommended. Test results reported as "Done" are possible if no limits are applied. For qualitative or quantitative "Functional Tests" the test results are not warranted, and no judgment is made. The "actual" measured results are helpful to users for some applications.

Test Name	As Received Status
SELF CAL AND TEST	As Expected
CH1 CURRENT CMR	As Expected
CH1 VOLTAGE CMR	As Expected
CH1 HIGH CAP CURR ACCY	As Expected
CH2 CURRENT CMR	As Expected
CH2 VOLTAGE CMR	As Expected
CH2 HIGH CAP CURR ACCY	As Expected

## CH1 VOLT MEAS AND OUTP ACCY

**Passed**

TEST CONDITIONS	MINIMUM	MEASURED	MAXIMUM	Status
<i>Voltage Measure Range 0.2 V</i>				
-0.21 V	-0.2102565 V	-0.2099900 V	-0.2097435 V	
-0.1 V	-0.1002400 V	-0.0999946 V	-0.0997600 V	
0 V	-0.0002250 V	0.0000035 V	0.0002250 V	
0.1 V	0.0997600 V	0.1000033 V	0.1002400 V	
0.21 V	0.2097435 V	0.2100105 V	0.2102565 V	
<i>Voltage Measure Range 2 V</i>				
-2.1 V	-2.100770 V	-2.099940 V	-2.099230 V	
-1 V	-1.000550 V	-1.000003 V	-0.999450 V	
0 V	-0.000350 V	-0.000013 V	0.000350 V	
1 V	0.999450 V	0.999983 V	1.000550 V	
2.1 V	2.099230 V	2.100061 V	2.100770 V	
<i>Voltage Measure Range 20 V</i>				
-21 V	-21.00815 V	-20.99880 V	-20.99185 V	
-10 V	-10.00650 V	-9.99975 V	-9.99350 V	
0 V	-0.00500 V	-0.00017 V	0.00500 V	
10 V	9.99350 V	9.99949 V	10.00650 V	
21 V	20.99185 V	21.00021 V	21.00815 V	
<i>Voltage Measure Range 200 V</i>				
-210 V	-210.0815 V	-209.9850 V	-209.9185 V	
-100 V	-100.0650 V	-99.9971 V	-99.9350 V	
0 V	-0.0500 V	-0.0013 V	0.0500 V	
100 V	99.9350 V	99.9948 V	100.0650 V	
210 V	209.9185 V	210.0006 V	210.0815 V	
<i>Voltage Source Range 0.2 V</i>				
-0.21 V	-0.2102565 V	-0.2100098 V	-0.2097435 V	
-0.1 V	-0.1002400 V	-0.1000051 V	-0.0997600 V	
0 V	-0.0002250 V	-0.0000042 V	0.0002250 V	
0.1 V	0.0997600 V	0.0999973 V	0.1002400 V	
0.21 V	0.2097435 V	0.2099899 V	0.2102565 V	
<i>Voltage Source Range 2 V</i>				
-2.1 V	-2.100770 V	-2.100061 V	-2.099230 V	
-1 V	-1.000550 V	-0.999997 V	-0.999450 V	
0 V	-0.000350 V	0.000013 V	0.000350 V	
1 V	0.999450 V	1.000017 V	1.000550 V	
2.1 V	2.099230 V	2.099939 V	2.100770 V	
<i>Voltage Source Range 20 V</i>				
-21 V	-21.00815 V	-21.00120 V	-20.99185 V	
-10 V	-10.00650 V	-10.00025 V	-9.99350 V	
0 V	-0.00500 V	0.00017 V	0.00500 V	
10 V	9.99350 V	10.00051 V	10.00650 V	
21 V	20.99185 V	20.99979 V	21.00815 V	
<i>Voltage Source Range 200 V</i>				
-210 V	-210.0815 V	-210.0150 V	-209.9185 V	
-100 V	-100.0650 V	-100.0029 V	-99.9350 V	

## CH1 VOLT MEAS AND OUTP ACCY (cont.)

TEST CONDITIONS	MINIMUM	MEASURED	MAXIMUM	Status
0 V	-0.0500 V	0.0013 V	0.0500 V	
100 V	99.9350 V	100.0052 V	100.0650 V	
210 V	209.9185 V	209.9994 V	210.0815 V	

## CH1 LOW CURR MEAS AND OUTP ACCY

**Passed**

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Measure Range 10 nA</i>				
-10.5 nA	-10.56050 nA	-10.49123 nA	-10.43950 nA	
-5 nA	-5.05500 nA	-4.99581 nA	-4.94500 nA	
0 nA	-0.05000 nA	0.00005 nA	0.05000 nA	
5 nA	4.94500 nA	4.99600 nA	5.05500 nA	
10.5 nA	10.43950 nA	10.49184 nA	10.56050 nA	
<i>Current Measure Range 100 nA</i>				
-105 nA	-105.1630 nA	-104.9935 nA	-104.8370 nA	
-50 nA	-50.1300 nA	-49.9958 nA	-49.8700 nA	
0 nA	-0.1000 nA	0.0010 nA	0.1000 nA	
50 nA	49.8700 nA	50.0016 nA	50.1300 nA	
105 nA	104.8370 nA	105.0029 nA	105.1630 nA	
<i>Current Measure Range 1 uA</i>				
-1.05 uA	-1.050763 uA	-1.050010 uA	-1.049238 uA	
-0.5 uA	-0.500625 uA	-0.500003 uA	-0.499375 uA	
0 uA	-0.000500 uA	0.000009 uA	0.000500 uA	
0.5 uA	0.499375 uA	0.500060 uA	0.500625 uA	
1.05 uA	1.049238 uA	1.050083 uA	1.050763 uA	
<i>Current Measure Range 10 uA</i>				
-10.5 uA	-10.50413 uA	-10.50039 uA	-10.49588 uA	
-5 uA	-5.00275 uA	-5.00015 uA	-4.99725 uA	
0 uA	-0.00150 uA	0.00009 uA	0.00150 uA	
5 uA	4.99725 uA	5.00067 uA	5.00275 uA	
10.5 uA	10.49588 uA	10.50099 uA	10.50413 uA	
<i>Current Source Range 10 nA</i>				
-10.5 nA	-10.56050 nA	-10.50876 nA	-10.43950 nA	
-5 nA	-5.05500 nA	-5.00419 nA	-4.94500 nA	
0 nA	-0.05000 nA	-0.00006 nA	0.05000 nA	
5 nA	4.94500 nA	5.00399 nA	5.05500 nA	
10.5 nA	10.43950 nA	10.50814 nA	10.56050 nA	
<i>Current Source Range 100 nA</i>				
-105 nA	-105.1630 nA	-105.0065 nA	-104.8370 nA	
-50 nA	-50.1300 nA	-50.0043 nA	-49.8700 nA	
0 nA	-0.1000 nA	-0.0011 nA	0.1000 nA	
50 nA	49.8700 nA	49.9983 nA	50.1300 nA	
105 nA	104.8370 nA	104.9970 nA	105.1630 nA	
<i>Current Source Range 1 uA</i>				
-1.05 uA	-1.050763 uA	-1.049990 uA	-1.049238 uA	
-0.5 uA	-0.500625 uA	-0.499998 uA	-0.499375 uA	
0 uA	-0.000500 uA	-0.000009 uA	0.000500 uA	
0.5 uA	0.499375 uA	0.499940 uA	0.500625 uA	

## CH1 LOW CURR MEAS AND OUTP ACCY (cont.)

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
1.05 uA	1.049238 uA	1.049917 uA	1.050763 uA	

### Current Source Range 10 uA

-10.5 uA	-10.50413 uA	-10.49961 uA	-10.49588 uA
-5 uA	-5.00275 uA	-4.99986 uA	-4.99725 uA
0 uA	-0.00150 uA	-0.00008 uA	0.00150 uA
5 uA	4.99725 uA	4.99933 uA	5.00275 uA
10.5 uA	10.49588 uA	10.49901 uA	10.50413 uA

## CH1 MIDD CURR MEAS AND OUTP ACCY

**Passed**

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
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### Current Measure Range 100 uA

-105 uA	-105.0460 uA	-105.0136 uA	-104.9540 uA
-50 uA	-50.0350 uA	-50.0062 uA	-49.9650 uA
0 uA	-0.0250 uA	0.0001 uA	0.0250 uA
50 uA	49.9650 uA	50.0098 uA	50.0350 uA
105 uA	104.9540 uA	105.0167 uA	105.0460 uA

### Current Measure Range 1 mA

-1.05 mA	-1.050410 mA	-1.050065 mA	-1.049590 mA
-0.5 mA	-0.500300 mA	-0.500030 mA	-0.499700 mA
0 mA	-0.000200 mA	0.000005 mA	0.000200 mA
0.5 mA	0.499700 mA	0.500072 mA	0.500300 mA
1.05 mA	1.049590 mA	1.050113 mA	1.050410 mA

### Current Measure Range 10 mA

-10.5 mA	-10.50460 mA	-10.50060 mA	-10.49540 mA
-5 mA	-5.00350 mA	-5.00033 mA	-4.99650 mA
0 mA	-0.00250 mA	0.00008 mA	0.00250 mA
5 mA	4.99650 mA	5.00070 mA	5.00350 mA
10.5 mA	10.49540 mA	10.50086 mA	10.50460 mA

### Current Measure Range 100 mA

-105 mA	-105.0410 mA	-104.9976 mA	-104.9590 mA
-50 mA	-50.0300 mA	-49.9986 mA	-49.9700 mA
0 mA	-0.0200 mA	-0.0001 mA	0.0200 mA
50 mA	49.9700 mA	50.0030 mA	50.0300 mA
105 mA	104.9590 mA	105.0030 mA	105.0410 mA

### Current Measure Range 1 A

-1.05 A	-1.051815 A	-1.049989 A	-1.048185 A
-0.5 A	-0.501650 A	-0.499997 A	-0.498350 A
0 A	-0.001500 A	0.000010 A	0.001500 A
0.5 A	0.498350 A	0.500028 A	0.501650 A
1.05 A	1.048185 A	1.050058 A	1.051815 A

### Current Source Range 100 uA

-105 uA	-105.0460 uA	-104.9864 uA	-104.9540 uA
-50 uA	-50.0350 uA	-49.9938 uA	-49.9650 uA
0 uA	-0.0250 uA	-0.0001 uA	0.0250 uA
50 uA	49.9650 uA	49.9902 uA	50.0350 uA
105 uA	104.9540 uA	104.9833 uA	105.0460 uA

## CH1 MIDD CURR MEAS AND OUTP ACCY (cont.)

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Source Range 1 mA</i>				
-1.05 mA	-1.050410 mA	-1.049935 mA	-1.049590 mA	
-0.5 mA	-0.500300 mA	-0.499970 mA	-0.499700 mA	
0 mA	-0.000200 mA	-0.000005 mA	0.000200 mA	
0.5 mA	0.499700 mA	0.499928 mA	0.500300 mA	
1.05 mA	1.049590 mA	1.049887 mA	1.050410 mA	
<i>Current Source Range 10 mA</i>				
-10.5 mA	-10.50460 mA	-10.49940 mA	-10.49540 mA	
-5 mA	-5.00350 mA	-4.99967 mA	-4.99650 mA	
0 mA	-0.00250 mA	-0.00008 mA	0.00250 mA	
5 mA	4.99650 mA	4.99930 mA	5.00350 mA	
10.5 mA	10.49540 mA	10.49914 mA	10.50460 mA	
<i>Current Source Range 100 mA</i>				
-105 mA	-105.0410 mA	-105.0030 mA	-104.9590 mA	
-50 mA	-50.0300 mA	-50.0016 mA	-49.9700 mA	
0 mA	-0.0200 mA	0.0000 mA	0.0200 mA	
50 mA	49.9700 mA	49.9970 mA	50.0300 mA	
105 mA	104.9590 mA	104.9971 mA	105.0410 mA	
<i>Current Source Range 1 A</i>				
-1.05 A	-1.051815 A	-1.050010 A	-1.048185 A	
-0.5 A	-0.501650 A	-0.500011 A	-0.498350 A	
0 A	-0.001500 A	-0.000010 A	0.001500 A	
0.5 A	0.498350 A	0.499970 A	0.501650 A	
1.05 A	1.048185 A	1.049933 A	1.051815 A	

## CH1 HIGH CURR MEAS AND OUTP ACCY

**Passed**

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Measure Range 1.5 A</i>				
-1.515 A	-1.519258 A	-1.514896 A	-1.510743 A	
-0.75 A	-0.753875 A	-0.749966 A	-0.746125 A	
0 A	-0.003500 A	0.000027 A	0.003500 A	
0.75 A	0.746125 A	0.750071 A	0.753875 A	
1.515 A	1.510743 A	1.514910 A	1.519258 A	
<i>Current Measure Range 3 A</i>				
-3.03 A	-3.04912 A	-3.02991 A	-3.01088 A	
-1.5 A	-1.51300 A	-1.50011 A	-1.48700 A	
0 A	-0.00700 A	0.00002 A	0.00700 A	
1.5 A	1.48700 A	1.50022 A	1.51300 A	
3.03 A	3.01088 A	3.03014 A	3.04912 A	
<i>Current Measure Range 10 A</i>				
-10.5 A	-10.56700 A	-10.50166 A	-10.43300 A	
-5 A	-5.04500 A	-5.00327 A	-4.95500 A	
0 A	-0.02500 A	0.00013 A	0.02500 A	
5 A	4.95500 A	5.00076 A	5.04500 A	
10.5 A	10.43300 A	10.50646 A	10.56700 A	



## CH1 HIGH CURR MEAS AND OUTP ACCY (cont.)

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Source Range 1.5 A</i>				
-1.515 A	-1.519258 A	-1.515104 A	-1.510743 A	
-0.75 A	-0.753875 A	-0.750035 A	-0.746125 A	
0 A	-0.003500 A	-0.000027 A	0.003500 A	
0.75 A	0.746125 A	0.749929 A	0.753875 A	
1.515 A	1.510743 A	1.515090 A	1.519258 A	
<i>Current Source Range 3 A</i>				
-3.03 A	-3.04912 A	-3.03009 A	-3.01088 A	
-1.5 A	-1.51300 A	-1.49989 A	-1.48700 A	
0 A	-0.00700 A	-0.00002 A	0.00700 A	
1.5 A	1.48700 A	1.49978 A	1.51300 A	
3.03 A	3.01088 A	3.02986 A	3.04912 A	
<i>Current Source Range 10 A</i>				
-10.5 A	-10.56700 A	-10.49860 A	-10.43300 A	
-5 A	-5.04500 A	-4.99697 A	-4.95500 A	
0 A	-0.02500 A	-0.00006 A	0.02500 A	
5 A	4.95500 A	4.99933 A	5.04500 A	
10.5 A	10.43300 A	10.49387 A	10.56700 A	

## CH2 VOLT MEAS AND OUTP ACCY

**Passed**

TEST CONDITIONS	MINIMUM	MEASURED	MAXIMUM	Status
<i>Voltage Measure Range 0.2 V</i>				
-0.21 V	-0.2102565 V	-0.2099840 V	-0.2097435 V	
-0.1 V	-0.1002400 V	-0.0999872 V	-0.0997600 V	
0 V	-0.0002250 V	0.0000140 V	0.0002250 V	
0.1 V	0.0997600 V	0.1000157 V	0.1002400 V	
0.21 V	0.2097435 V	0.2100271 V	0.2102565 V	
<i>Voltage Measure Range 2 V</i>				
-2.1 V	-2.100770 V	-2.099957 V	-2.099230 V	
-1 V	-1.000550 V	-0.999994 V	-0.999450 V	
0 V	-0.000350 V	0.000011 V	0.000350 V	
1 V	0.999450 V	1.000021 V	1.000550 V	
2.1 V	2.099230 V	2.100124 V	2.100770 V	
<i>Voltage Measure Range 20 V</i>				
-21 V	-21.00815 V	-20.99932 V	-20.99185 V	
-10 V	-10.00650 V	-9.99995 V	-9.99350 V	
0 V	-0.00500 V	0.00000 V	0.00500 V	
10 V	9.99350 V	10.00004 V	10.00650 V	
21 V	20.99185 V	21.00130 V	21.00815 V	
<i>Voltage Measure Range 200 V</i>				
-210 V	-210.0815 V	-209.9901 V	-209.9185 V	
-100 V	-100.0650 V	-99.9995 V	-99.9350 V	
0 V	-0.0500 V	-0.0010 V	0.0500 V	
100 V	99.9350 V	99.9989 V	100.0650 V	
210 V	209.9185 V	210.0104 V	210.0815 V	

## CH2 VOLT MEAS AND OUTP ACCY (cont.)

TEST CONDITIONS	MINIMUM	MEASURED	MAXIMUM	Status
<i>Voltage Source Range 0.2 V</i>				
-0.21 V	-0.2102565 V	-0.2100159 V	-0.2097435 V	
-0.1 V	-0.1002400 V	-0.1000127 V	-0.0997600 V	
0 V	-0.0002250 V	-0.0000139 V	0.0002250 V	
0.1 V	0.0997600 V	0.0999842 V	0.1002400 V	
0.21 V	0.2097435 V	0.2099731 V	0.2102565 V	
<i>Voltage Source Range 2 V</i>				
-2.1 V	-2.100770 V	-2.100043 V	-2.099230 V	
-1 V	-1.000550 V	-1.000006 V	-0.999450 V	
0 V	-0.000350 V	-0.000012 V	0.000350 V	
1 V	0.999450 V	0.999979 V	1.000550 V	
2.1 V	2.099230 V	2.099876 V	2.100770 V	
<i>Voltage Source Range 20 V</i>				
-21 V	-21.00815 V	-21.00068 V	-20.99185 V	
-10 V	-10.00650 V	-10.00005 V	-9.99350 V	
0 V	-0.00500 V	0.00000 V	0.00500 V	
10 V	9.99350 V	9.99996 V	10.00650 V	
21 V	20.99185 V	20.99870 V	21.00815 V	
<i>Voltage Source Range 200 V</i>				
-210 V	-210.0815 V	-210.0099 V	-209.9185 V	
-100 V	-100.0650 V	-100.0005 V	-99.9350 V	
0 V	-0.0500 V	0.0010 V	0.0500 V	
100 V	99.9350 V	100.0011 V	100.0650 V	
210 V	209.9185 V	209.9896 V	210.0815 V	

## CH2 LOW CURR MEAS AND OUTP ACCY

**Passed**

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Measure Range 10 nA</i>				
-10.5 nA	-10.56050 nA	-10.48804 nA	-10.43950 nA	
-5 nA	-5.05500 nA	-4.99513 nA	-4.94500 nA	
0 nA	-0.05000 nA	-0.00130 nA	0.05000 nA	
5 nA	4.94500 nA	4.99241 nA	5.05500 nA	
10.5 nA	10.43950 nA	10.48478 nA	10.56050 nA	
<i>Current Measure Range 100 nA</i>				
-105 nA	-105.1630 nA	-105.0004 nA	-104.8370 nA	
-50 nA	-50.1300 nA	-50.0036 nA	-49.8700 nA	
0 nA	-0.1000 nA	-0.0075 nA	0.1000 nA	
50 nA	49.8700 nA	49.9927 nA	50.1300 nA	
105 nA	104.8370 nA	104.9900 nA	105.1630 nA	
<i>Current Measure Range 1 uA</i>				
-1.05 uA	-1.050763 uA	-1.050103 uA	-1.049238 uA	
-0.5 uA	-0.500625 uA	-0.500061 uA	-0.499375 uA	
0 uA	-0.000500 uA	0.000003 uA	0.000500 uA	
0.5 uA	0.499375 uA	0.500025 uA	0.500625 uA	
1.05 uA	1.049238 uA	1.050087 uA	1.050763 uA	

## CH2 LOW CURR MEAS AND OUTP ACCY (cont.)

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Measure Range 10 uA</i>				
-10.5 uA	-10.50413 uA	-10.50092 uA	-10.49588 uA	
-5 uA	-5.00275 uA	-5.00061 uA	-4.99725 uA	
0 uA	-0.00150 uA	0.00001 uA	0.00150 uA	
5 uA	4.99725 uA	5.00030 uA	5.00275 uA	
10.5 uA	10.49588 uA	10.50085 uA	10.50413 uA	
<i>Current Source Range 10 nA</i>				
-10.5 nA	-10.56050 nA	-10.51195 nA	-10.43950 nA	
-5 nA	-5.05500 nA	-5.00488 nA	-4.94500 nA	
0 nA	-0.05000 nA	0.00129 nA	0.05000 nA	
5 nA	4.94500 nA	5.00759 nA	5.05500 nA	
10.5 nA	10.43950 nA	10.51522 nA	10.56050 nA	
<i>Current Source Range 100 nA</i>				
-105 nA	-105.1630 nA	-104.9996 nA	-104.8370 nA	
-50 nA	-50.1300 nA	-49.9965 nA	-49.8700 nA	
0 nA	-0.1000 nA	0.0074 nA	0.1000 nA	
50 nA	49.8700 nA	50.0072 nA	50.1300 nA	
105 nA	104.8370 nA	105.0099 nA	105.1630 nA	
<i>Current Source Range 1 uA</i>				
-1.05 uA	-1.050763 uA	-1.049897 uA	-1.049238 uA	
-0.5 uA	-0.500625 uA	-0.499939 uA	-0.499375 uA	
0 uA	-0.000500 uA	-0.000003 uA	0.000500 uA	
0.5 uA	0.499375 uA	0.499975 uA	0.500625 uA	
1.05 uA	1.049238 uA	1.049913 uA	1.050763 uA	
<i>Current Source Range 10 uA</i>				
-10.5 uA	-10.50413 uA	-10.49908 uA	-10.49588 uA	
-5 uA	-5.00275 uA	-4.99939 uA	-4.99725 uA	
0 uA	-0.00150 uA	-0.00001 uA	0.00150 uA	
5 uA	4.99725 uA	4.99970 uA	5.00275 uA	
10.5 uA	10.49588 uA	10.49915 uA	10.50413 uA	

## CH2 MIDD CURR MEAS AND OUTP ACCY

**Passed**

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Measure Range 100 uA</i>				
-105 uA	-105.0460 uA	-105.0093 uA	-104.9540 uA	
-50 uA	-50.0350 uA	-50.0049 uA	-49.9650 uA	
0 uA	-0.0250 uA	-0.0022 uA	0.0250 uA	
50 uA	49.9650 uA	50.0033 uA	50.0350 uA	
105 uA	104.9540 uA	105.0081 uA	105.0460 uA	
<i>Current Measure Range 1 mA</i>				
-1.05 mA	-1.050410 mA	-1.050374 mA	-1.049590 mA	
-0.5 mA	-0.500300 mA	-0.500185 mA	-0.499700 mA	
0 mA	-0.000200 mA	-0.000020 mA	0.000200 mA	
0.5 mA	0.499700 mA	0.500176 mA	0.500300 mA	
1.05 mA	1.049590 mA	1.050390 mA	1.050410 mA	

## CH2 MIDD CURR MEAS AND OUTP ACCY (cont.)

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
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### Current Measure Range 10 mA

-10.5 mA	-10.50460 mA	-10.50353 mA	-10.49540 mA	
-5 mA	-5.00350 mA	-5.00186 mA	-4.99650 mA	
0 mA	-0.00250 mA	-0.00019 mA	0.00250 mA	
5 mA	4.99650 mA	5.00183 mA	5.00350 mA	
10.5 mA	10.49540 mA	10.50390 mA	10.50460 mA	

### Current Measure Range 100 mA

-105 mA	-105.0410 mA	-105.0027 mA	-104.9590 mA	
-50 mA	-50.0300 mA	-50.0019 mA	-49.9700 mA	
0 mA	-0.0200 mA	-0.0018 mA	0.0200 mA	
50 mA	49.9700 mA	50.0012 mA	50.0300 mA	
105 mA	104.9590 mA	105.0043 mA	105.0410 mA	

### Current Measure Range 1 A

-1.05 A	-1.051815 A	-1.050016 A	-1.048185 A	
-0.5 A	-0.501650 A	-0.500036 A	-0.498350 A	
0 A	-0.001500 A	-0.000023 A	0.001500 A	
0.5 A	0.498350 A	0.500013 A	0.501650 A	
1.05 A	1.048185 A	1.050014 A	1.051815 A	

### Current Source Range 100 uA

-105 uA	-105.0460 uA	-104.9907 uA	-104.9540 uA	
-50 uA	-50.0350 uA	-49.9951 uA	-49.9650 uA	
0 uA	-0.0250 uA	0.0022 uA	0.0250 uA	
50 uA	49.9650 uA	49.9967 uA	50.0350 uA	
105 uA	104.9540 uA	104.9919 uA	105.0460 uA	

### Current Source Range 1 mA

-1.05 mA	-1.050410 mA	-1.049626 mA	-1.049590 mA	
-0.5 mA	-0.500300 mA	-0.499815 mA	-0.499700 mA	
0 mA	-0.000200 mA	0.000020 mA	0.000200 mA	
0.5 mA	0.499700 mA	0.499824 mA	0.500300 mA	
1.05 mA	1.049590 mA	1.049610 mA	1.050410 mA	

### Current Source Range 10 mA

-10.5 mA	-10.50460 mA	-10.49647 mA	-10.49540 mA	
-5 mA	-5.00350 mA	-4.99814 mA	-4.99650 mA	
0 mA	-0.00250 mA	0.00019 mA	0.00250 mA	
5 mA	4.99650 mA	4.99817 mA	5.00350 mA	
10.5 mA	10.49540 mA	10.49610 mA	10.50460 mA	

### Current Source Range 100 mA

-105 mA	-105.0410 mA	-104.9972 mA	-104.9590 mA	
-50 mA	-50.0300 mA	-49.9983 mA	-49.9700 mA	
0 mA	-0.0200 mA	0.0017 mA	0.0200 mA	
50 mA	49.9700 mA	49.9988 mA	50.0300 mA	
105 mA	104.9590 mA	104.9957 mA	105.0410 mA	

### Current Source Range 1 A

-1.05 A	-1.051815 A	-1.049979 A	-1.048185 A	
-0.5 A	-0.501650 A	-0.499973 A	-0.498350 A	
0 A	-0.001500 A	0.000023 A	0.001500 A	
0.5 A	0.498350 A	0.499986 A	0.501650 A	

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 Condition As Received

## CH2 MIDD CURR MEAS AND OUTP ACCY (cont.)

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
1.05 A	1.048185 A	1.049983 A	1.051815 A	

## CH2 HIGH CURR MEAS AND OUTP ACCY

**Passed**

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
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### Current Measure Range 1.5 A

-1.515 A	-1.519258 A	-1.514943 A	-1.510743 A	
-0.75 A	-0.753875 A	-0.750048 A	-0.746125 A	
0 A	-0.003500 A	-0.000029 A	0.003500 A	
0.75 A	0.746125 A	0.750004 A	0.753875 A	
1.515 A	1.510743 A	1.514896 A	1.519258 A	

### Current Measure Range 3 A

-3.03 A	-3.04912 A	-3.02970 A	-3.01088 A	
-1.5 A	-1.51300 A	-1.50018 A	-1.48700 A	
0 A	-0.00700 A	-0.00010 A	0.00700 A	
1.5 A	1.48700 A	1.49999 A	1.51300 A	
3.03 A	3.01088 A	3.02954 A	3.04912 A	

### Current Measure Range 10 A

-10.5 A	-10.56700 A	-10.50072 A	-10.43300 A	
-5 A	-5.04500 A	-5.00134 A	-4.95500 A	
0 A	-0.02500 A	-0.00138 A	0.02500 A	
5 A	4.95500 A	5.00389 A	5.04500 A	
10.5 A	10.43300 A	10.50544 A	10.56700 A	

### Current Source Range 1.5 A

-1.515 A	-1.519258 A	-1.515049 A	-1.510743 A	
-0.75 A	-0.753875 A	-0.749952 A	-0.746125 A	
0 A	-0.003500 A	0.000029 A	0.003500 A	
0.75 A	0.746125 A	0.749997 A	0.753875 A	
1.515 A	1.510743 A	1.515103 A	1.519258 A	

### Current Source Range 3 A

-3.03 A	-3.04912 A	-3.03030 A	-3.01088 A	
-1.5 A	-1.51300 A	-1.49982 A	-1.48700 A	
0 A	-0.00700 A	0.00010 A	0.00700 A	
1.5 A	1.48700 A	1.50001 A	1.51300 A	
3.03 A	3.01088 A	3.03046 A	3.04912 A	

### Current Source Range 10 A

-10.5 A	-10.56700 A	-10.49919 A	-10.43300 A	
-5 A	-5.04500 A	-4.99874 A	-4.95500 A	
0 A	-0.02500 A	0.00144 A	0.02500 A	
5 A	4.95500 A	4.99638 A	5.04500 A	
10.5 A	10.43300 A	10.49446 A	10.56700 A	

## SELF CAL AND TEST

**As Expected**

TEST CONDITIONS	RESULT	Status
Self Calibration	DONE	

Model B2912A Serial HERE SN  
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 Test Date 12 Dec 2019  
 Condition As Received

## SELF CAL AND TEST (cont.)

TEST CONDITIONS	RESULT	Status
Self Test	DONE	

## CH1 CURRENT CMR

**As Expected**

TEST CONDITIONS	RESULT	Status
200 V Range	DONE	

NOTE:

This test is a function check, and result status reported here is for information only.

## CH1 VOLTAGE CMR

**As Expected**

TEST CONDITIONS	RESULT	Status
100 uA Range	DONE	

NOTE:

This test is a function check, and result status reported here is for information only.

## CH1 HIGH CAP CURR ACCY

**As Expected**

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Measure Range 1 uA</i>				
-1 uA	-1.000750 uA	-1.000020 uA	-0.999250 uA	
-0.1 uA	-0.100525 uA	-0.099997 uA	-0.099475 uA	
0.1 uA	0.099475 uA	0.100002 uA	0.100525 uA	
1 uA	0.999250 uA	1.000060 uA	1.000750 uA	
<i>Current Source Range 1 uA</i>				
-1 uA	-1.000750 uA	-0.999854 uA	-0.999250 uA	
-0.1 uA	-0.100525 uA	-0.099988 uA	-0.099475 uA	
0.1 uA	0.099475 uA	0.099991 uA	0.100525 uA	
1 uA	0.999250 uA	0.999886 uA	1.000750 uA	

## CH2 CURRENT CMR

**As Expected**

TEST CONDITIONS	RESULT	Status
200 V Range	DONE	

Model B2912A Serial HERE SN  
 Options Tested

 Test Date 12 Dec 2019  
 Condition As Received

## CH2 CURRENT CMR (cont.)

TEST CONDITIONS	RESULT	Status
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**NOTE:**

*This test is a function check, and result status reported here is for information only.*

## CH2 VOLTAGE CMR

**As Expected**

TEST CONDITIONS	RESULT	Status
100 uA Range	DONE	

**NOTE:**

*This test is a function check, and result status reported here is for information only.*

## CH2 HIGH CAP CURR ACCY

**As Expected**

TEST COND.	MINIMUM	MEASURED	MAXIMUM	Status
<i>Current Measure Range 1 uA</i>				
-1 uA	-1.000750 uA	-1.000098 uA	-0.999250 uA	
-0.1 uA	-0.100525 uA	-0.100039 uA	-0.099475 uA	
0.1 uA	0.099475 uA	0.099968 uA	0.100525 uA	
1 uA	0.999250 uA	1.000057 uA	1.000750 uA	
<i>Current Source Range 1 uA</i>				
-1 uA	-1.000750 uA	-0.999864 uA	-0.999250 uA	
-0.1 uA	-0.100525 uA	-0.100005 uA	-0.099475 uA	
0.1 uA	0.099475 uA	0.099973 uA	0.100525 uA	
1 uA	0.999250 uA	0.999865 uA	1.000750 uA	