



CALIBRATION REPORT

ORDER NO. _____

JUNE 10, 2020

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MANUFACTURER: OHM-LABS
 DESCRIPTION: CURRENT SHUNT
 MODEL: CS-1000
 SERIAL: _____

PROCEDURE: CS CAL
 LAB ENVIRONMENT: 24.6 °C / 41 %RH
 CALIBRATION DATE: 10/JUN/2020

MEASUREMENT DATA – AS FOUND / AS LEFT				
APPLIED CURRENT	MEASURED VALUE	UNCERTAINTY	TEMPERATURE	TEMPERATURE UNCERTAINTY
200 A	99.982 6 $\mu\Omega$	7 $\mu\Omega/\Omega$	25.4 °C	1.1 °C
400	99.991 5	7	30.5	1.1
600	100.000 8	14	36.8	0.4
800	100.011 5	9	50.0	2.9
1000	100.012 9	14	63.8	6.0

NOTES:

SHUNT WAS ALLOWED TO FULLY STABILIZE AT EACH APPLIED CURRENT.

REPORTED TEMPERATURE UNCERTAINTY INCLUDES STANDARD DEVIATION OF TEMPERATURE AT EACH CURRENT SETTING.

STANDARDS USED

ID	DESCRIPTION	MAKE & MODEL	CAL DUE
AS3195	RESISTANCE STANDARD	OHM-LABS 2001	31/MAR/2021
AS3326	PRECISION THERMOMETER	ISOTECH MILLIK	11/NOV/2020
AS3401	RESISTANCE BRIDGE	GUILDLINE 9920	28/FEB/2021

COMMENTS:

OHM-LABS, INC. CERTIFIES THAT THIS CALIBRATION IS TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), OR ANOTHER RECOGNIZED NATIONAL MEASUREMENT INSTITUTE, OR DERIVED BY A RATIO TYPE SELF-CALIBRATION TECHNIQUE, AND IS ACCREDITED TO ISO/IEC 17025:2005. OHM-LABS' QUALITY CONTROL SYSTEM MEETS THE REQUIREMENTS OF ANSI/NCSL Z540-1-1994. THE REPORTED UNCERTAINTIES REPRESENT EXPANDED UNCERTAINTIES EXPRESSED AT A CONFIDENCE LEVEL OF APPROXIMATELY 95 %, USING A COVERAGE FACTOR OF K=2. THIS UNCERTAINTY IS AT THE TIME OF TEST ONLY AND DOES NOT TAKE INTO ACCOUNT TRANSIT, USAGE, DRIFT OVER TIME, OR OTHER FACTORS AFFECTING STABILITY. THIS DOCUMENT RELATES ONLY TO THE ITEMS IDENTIFIED HEREIN, AND IS IN COMPLIANCE WITH ALL REQUIREMENTS OF THE ABOVE REFERENCED PURCHASE ORDER. THE CALIBRATION PERFORMED WAS IN ACCORDANCE WITH THE CURRENT REVISION LEVEL OF OHM-LABS' QUALITY CONTROL SYSTEM. TRAINED AND QUALIFIED PERSONNEL PERFORMED THE CALIBRATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ISO/IEC 17025:2005. THIS CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION OF OHM-LABS, INC.

PERFORMED BY _____

REVIEWED BY: _____





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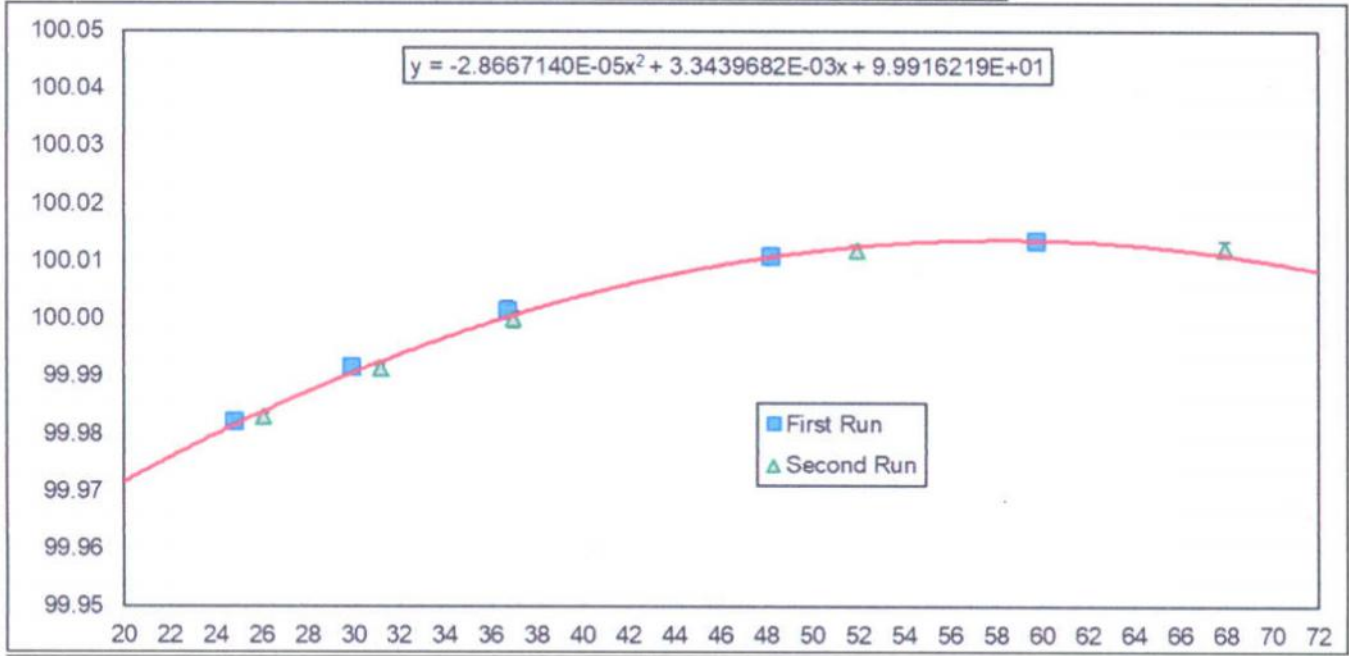
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MANUFACTURER: OHM-LABS

MODEL: CS-1000

SERIAL: :

RESISTANCE IN MICRO-OHMS VS. TEMPERATURE IN °C



EQUATION IN ABOVE CHART WAS USED TO CALCULATE VALUES IN BELOW TABLE.

TABLE OF TEMPERATURE VS. RESISTANCE

°C	μΩ	°C	μΩ	°C	μΩ
20	99.971 6	40	100.004 1	60	100.013 7
22	99.975 9	42	100.006 1	62	100.013 3
24	99.980 0	44	100.007 9	64	100.012 8
26	99.983 8	46	100.009 4	66	100.012 0
28	99.987 4	48	100.010 7	68	100.011 1
30	99.990 7	50	100.011 7	70	100.009 8
32	99.993 9	52	100.012 6	72	100.008 4
34	99.996 8	54	100.013 2	74	100.006 7
36	99.999 4	56	100.013 6	76	100.004 8
38	100.001 9	58	100.013 7	78	100.002 6

END OF REPORT