



# CALIBRATION REPORT

ORDER No.:

JUNE 13, 2020

PAGE 1 OF 2

MANUFACTURER: OHM-LABS  
 DESCRIPTION: CURRENT SHUNT  
 MODEL: CS-200  
 SERIAL:

PROCEDURE: CS CAL  
 LAB ENVIRONMENT: 22.6 °C / 35 %RH  
 CALIBRATION DATE: 13/JUN/2020

MEASUREMENT DATA – AS FOUND / AS LEFT				
APPLIED CURRENT	MEASURED VALUE	UNCERTAINTY	TEMPERATURE	TEMPERATURE UNCERTAINTY
40 A	0.999 969 3 mΩ	4.4 μΩ/Ω	24.9 °C	1.0 °C
80	0.999 983 5	3.4	29.7	0.3
120	0.999 996 3	3.7	38.3	0.7
160	0.999 996 5	3.7	50.4	1.2
200	0.999 980 9	3.1	65.9	0.7

**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
AS3001	RESISTANCE STANDARD	OHM-LABS 200	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:





# CALIBRATION REPORT

ORDER NO. :

JUNE 13, 2020

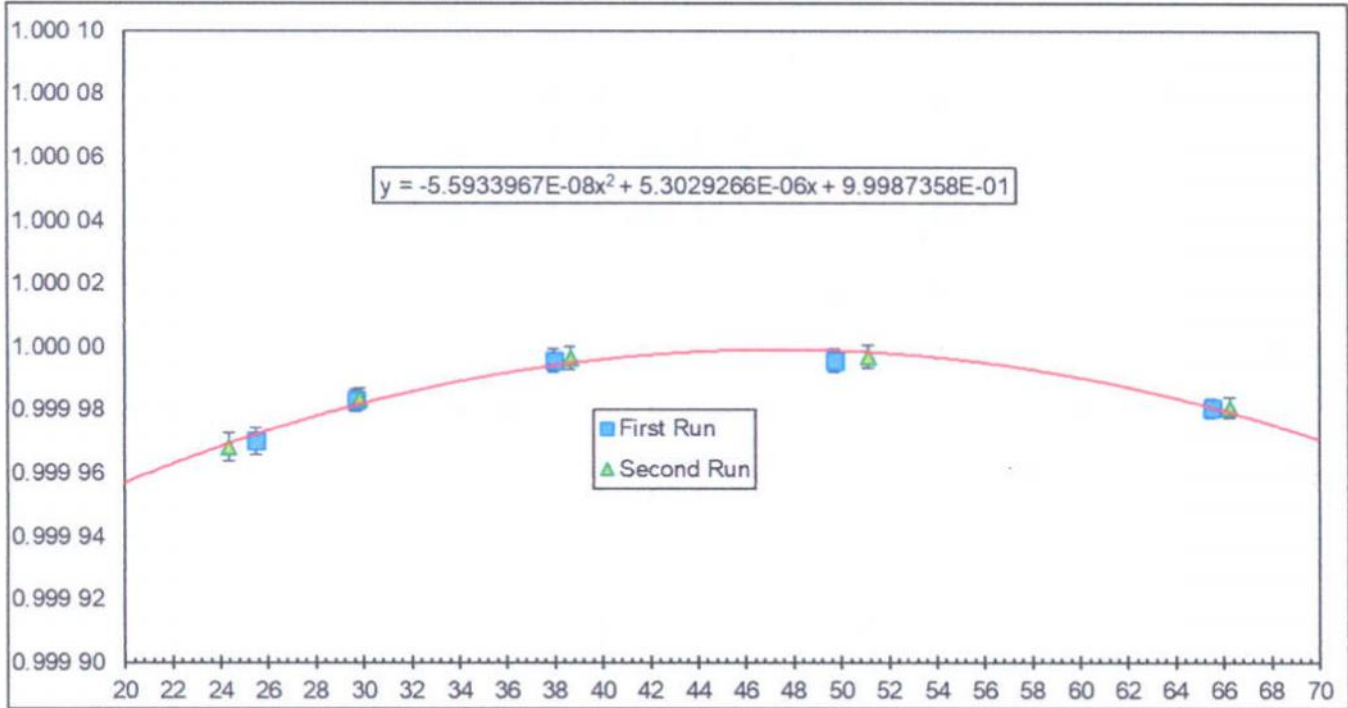
PAGE 2 OF 2

MANUFACTURER: OHM-LABS

MODEL: CS-200

SERIAL: :

RESISTANCE IN MILLI-OHMS VS. TEMPERATURE IN °C



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

TABLE OF TEMPERATURE VS. RESISTANCE

°C	mΩ	°C	mΩ	°C	mΩ	°C	mΩ	°C	mΩ
20	0.999 957 3	30	0.999 982 3	40	0.999 996 2	50	0.999 998 9	60	0.999 990 4
21	0.999 960 3	31	0.999 984 2	41	0.999 997 0	51	0.999 998 5	61	0.999 988 9
22	0.999 963 2	32	0.999 986 0	42	0.999 997 6	52	0.999 998 1	62	0.999 987 4
23	0.999 966 0	33	0.999 987 7	43	0.999 998 2	53	0.999 997 5	63	0.999 985 7
24	0.999 968 6	34	0.999 989 2	44	0.999 998 6	54	0.999 996 8	64	0.999 983 9
25	0.999 971 2	35	0.999 990 7	45	0.999 998 9	55	0.999 996 0	65	0.999 981 9
26	0.999 973 6	36	0.999 992 0	46	0.999 999 2	56	0.999 995 1	66	0.999 979 9
27	0.999 976 0	37	0.999 993 2	47	0.999 999 3	57	0.999 994 1	67	0.999 977 8
28	0.999 978 2	38	0.999 994 3	48	0.999 999 2	58	0.999 993 0	68	0.999 975 5
29	0.999 980 3	39	0.999 995 3	49	0.999 999 1	59	0.999 991 7	69	0.999 973 2

END OF REPORT