



CALIBRATION REPORT

ORDER No.

JULY 8, 2015

PAGE 1 OF 2

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

PROCEDURE: CS CAL
 LAB ENVIRONMENT: 23.1 °C / 48 %RH
 CALIBRATION DATE: 08/JUL/2015
 CALIBRATION DUE

MEASUREMENT DATA – AS FOUND / AS LEFT			
APPLIED CURRENT	MEASURED VALUE	TEMPERATURE	UNCERTAINTY
40 A	0.999 930 8 mΩ	28.1 °C	5.1 μΩ/Ω
80	0.999 926 3	40.8	7.2
120	0.999 946 3	65.3	5.8
160	0.999 984 8	95.6	6.5
200	1.000 043 8	127.8	5.1

NOTES:
 SHUNT WAS ALLOWED TO FULLY STABILIZE AT EACH APPLIED CURRENT.

STANDARDS USED			
ID	DESCRIPTION	MAKE & MODEL	CAL DUE
AS3001	RESISTANCE STANDARD	OHM-LABS 200	02/SEP/2015
AS3401	RESISTANCE BRIDGE	GUILDLINE 9920A	01/APR/2016
AS3322	THERMOMETER, RTD	COLE-PARMER 93400	08/SEP/2015

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. 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 CERTIFIES THAT THE ITEMS IDENTIFIED HEREIN COMPLY WITH ALL REQUIREMENTS OF THE ABOVE PURCHASE ORDER, AND THAT 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. THIS CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY OHM-LABS, INC.

PERFORMED BY

REVIEWED BY: _





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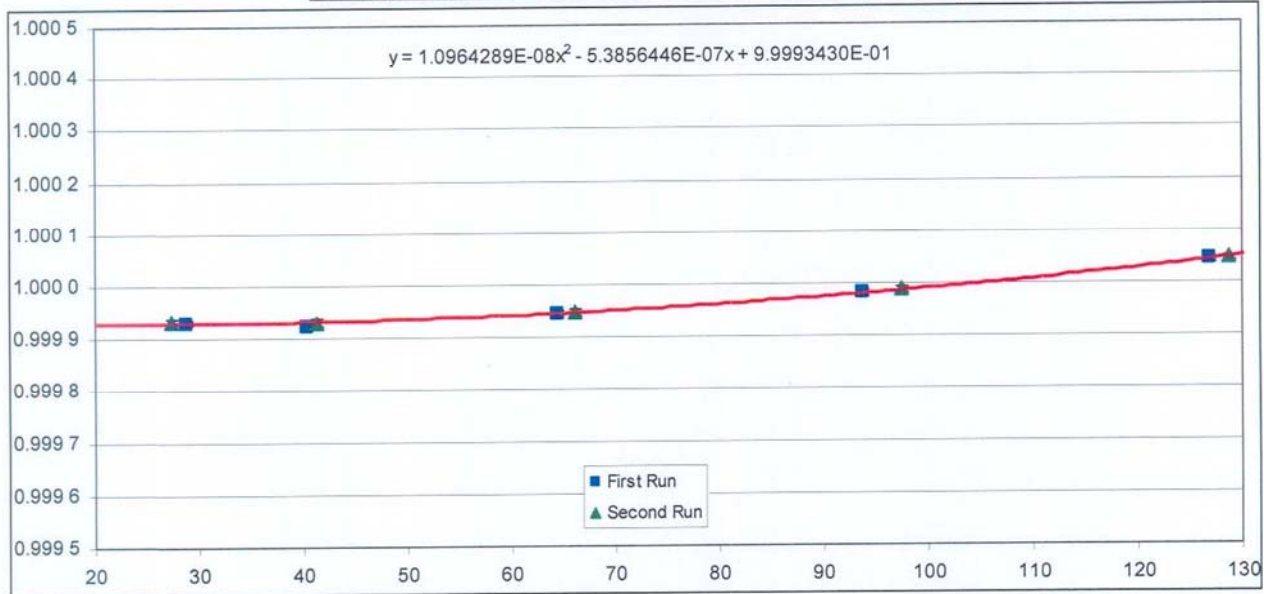
JULY 8, 2015
PAGE 2 OF 2

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
20	0.999 927 9	60	0.999 941 5	100	0.999 990 1
22	0.999 927 8	62	0.999 943 1	102	0.999 993 4
24	0.999 927 7	64	0.999 944 7	104	0.999 996 9
26	0.999 927 7	66	0.999 946 5	106	1.000 000 4
28	0.999 927 8	68	0.999 948 4	108	1.000 004 0
30	0.999 928 0	70	0.999 950 3	110	1.000 007 7
32	0.999 928 3	72	0.999 952 4	112	1.000 011 5
34	0.999 928 7	74	0.999 954 5	114	1.000 015 4
36	0.999 929 1	76	0.999 956 7	116	1.000 019 4
38	0.999 929 7	78	0.999 959 0	118	1.000 023 4
40	0.999 930 3	80	0.999 961 4	120	1.000 027 6
42	0.999 931 0	82	0.999 963 9	122	1.000 031 8
44	0.999 931 8	84	0.999 966 4	124	1.000 036 1
46	0.999 932 7	86	0.999 969 1	126	1.000 040 5
48	0.999 933 7	88	0.999 971 8	128	1.000 045 0
50	0.999 934 8	90	0.999 974 6	130	1.000 049 6
52	0.999 935 9	92	0.999 977 6	132	1.000 054 3
54	0.999 937 2	94	0.999 980 6	134	1.000 059 0
56	0.999 938 5	96	0.999 983 6	136	1.000 063 9
58	0.999 939 9	98	0.999 986 8	138	1.000 068 8

END OF REPORT.