

CALIBRATION REPORT ORDER No. OCTOBER 25, 2013 PAGE 1 OF 2

Manufacturer:

OHM-LABS INC.

DESCRIPTION:

CURRENT SHUNT

CS-100

MODEL: SERIAL: PROCEDURE:

CS CAL

LAB ENVIRONMENT: CALIBRATION DATE: 23 °C / 35 %RH 25/OcT/2013

CALIBRATION DUE:

APPLIED CURRENT	MEASURED VALUE	RTD*	UNCERTAINTY
20 A	0.999 990 9 mΩ	23.9 °C	6.9 μΩ/Ω
40	0.999 994 1	27.6	5.2
60	0.999 995 2	32.8	5.0
80	0.999 994 0	40.5	5.4
100	0.999 986 6	49.0	5.3

NOTE: SHUNT WAS ALLOWED TO FULLY STABILIZE AT EACH CURRENT LEVEL.

STANDARDS USED

ID	DESCRIPTION	MAKE & MODEL	CAL DUE
AS3001	RESISTANCE STANDARD	OHM-LABS 200	28/FEB/2014
AS3401	RESISTANCE BRIDGE	GUILDLINE 9920-1	11/FEB/2014
AS3322	DIGITAL THERMOMETER	DIGI-SENSE 93400	22/Aug/2014

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. THE REPORTED UNCERTAINTIES INCLUDE THE STANDARD DEVIATION OF MULTIPLE MEASUREMENTS PERFORMED ON SEPARATE DAYS. 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. UNLESS OTHERWISE NOTED, THE REPORTED MEASUREMENTS ARE CONSIDERED AS FOUND/AS LEFT. THIS CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY OHM-LABS, INC.

PERFORMED BY

REVIEWED BY:_



^{*}TEMPERATURE MEASUREMENTS ARE NOT ACCREDITED.



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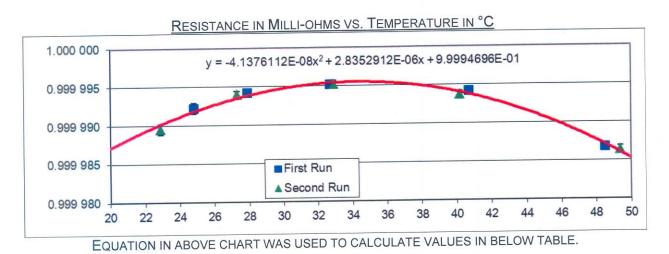


TABLE OF TEMPERATURE VS. RESISTANCE

°C	MILLI-OHMS	°C	MILLI-OHMS	°C	MILLI-OHMS
20	0.999 987 1	30	0.999 994 8	40	0.999 994 2
21	0.999 988 3	31	0.999 995 1	41	0.999 993 7
22	0.999 989 3	32	0.999 995 3	42	0.999 993 1
23	0.999 990 3	33	0.999 995 5	43	0.999 992 4
24	0.999 991 2	34	0.999 995 5	44	0.999 991 6
25	0.999 992 0	35	0.999 995 5	45	0.999 990 8
26	0.999 992 7	36	0.999 995 4	46	0.999 989 8
27	0.999 993 3	37	0.999 995 2	47	0.999 988 8
28	0.999 993 9	38	0.999 995 0	48	0.999 987 7
29	0.999 994 4	39	0.999 994 6	49	0.999 986 5

END OF REPORT