



CALIBRATION REPORT

ORDER No.

JUNE 21, 2022

PAGE 1 OF 2

MANUFACTURER: OHM-LABS
 DESCRIPTION: CURRENT SHUNT
 MODEL: CS-3000
 SERIAL:

PROCEDURE: CS CAL
 LAB ENVIRONMENT: 22.9 °C / 43 %RH
 CALIBRATION DATE: 21/JUN/2022

MEASUREMENT DATA				
APPLIED CURRENT	MEASURED VALUE	UNCERTAINTY	TEMPERATURE	TEMPERATURE UNCERTAINTY
600 A	9.999 88 $\mu\Omega$	65 $\mu\Omega/\Omega$	24.1 °C	0.8 °C
1200	10.000 38	79	30.8	2.5
1800	10.000 68	73	43.4	0.7
2400	10.000 10	65	56.3	1.0
3000	9.998 11	93	72.4	1.6

NOTES:

SHUNT WAS MEASURED AT INCREASING CURRENT LEVELS, WITH 30 MINUTES STABILIZATION AT EACH CURRENT.
 REPORTED TEMPERATURE UNCERTAINTY INCLUDES STANDARD DEVIATION OF TEMPERATURE AT EACH CURRENT SETTING.

STANDARDS USED

ID	DESCRIPTION	MAKE & MODEL	CAL DUE
AS3002	RESISTANCE STANDARD	OHM-LABS 200	31/MAR/2023
AS3404	RESISTANCE BRIDGE	GUILDLINE 3000A	28/FEB/2023
AS3326	PRECISION THERMOMETER	ISOTECH MILLIK	02/DEC/2022

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 17025:2017. 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 17025:2017. 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 21, 2022

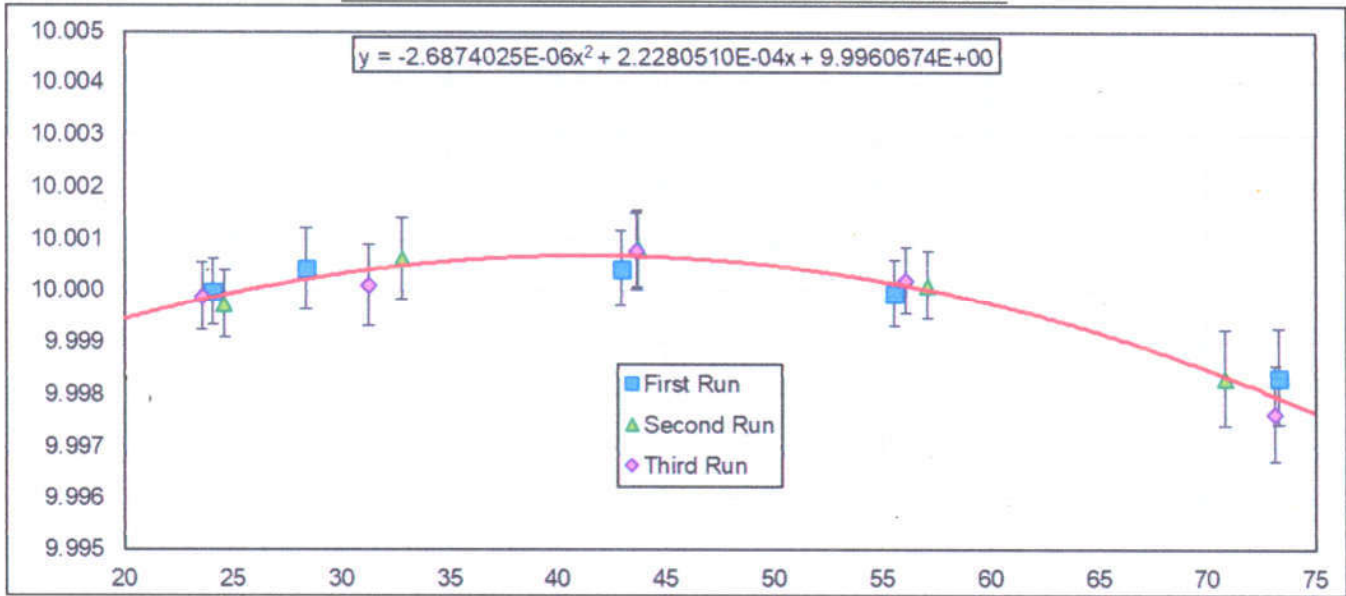
PAGE 2 OF 2

MANUFACTURER: OHM-LABS

MODEL: CS-3000

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	°C	μΩ	°C	μΩ	°C	μΩ
20	9.999 45	30	10.000 33	40	10.000 68	50	10.000 49	60	9.999 76	70	9.998 50
21	9.999 56	31	10.000 39	41	10.000 68	51	10.000 44	61	9.999 66	71	9.998 34
22	9.999 67	32	10.000 45	42	10.000 68	52	10.000 39	62	9.999 55	72	9.998 18
23	9.999 77	33	10.000 49	43	10.000 68	53	10.000 33	63	9.999 44	73	9.998 01
24	9.999 87	34	10.000 54	44	10.000 67	54	10.000 26	64	9.999 32	74	9.997 84
25	9.999 96	35	10.000 57	45	10.000 65	55	10.000 19	65	9.999 20	75	9.997 66
26	10.000 04	36	10.000 61	46	10.000 63	56	10.000 12	66	9.999 07	76	9.997 48
27	10.000 12	37	10.000 63	47	10.000 60	57	10.000 04	67	9.998 93	77	9.997 29
28	10.000 20	38	10.000 65	48	10.000 57	58	9.999 95	68	9.998 79	78	9.997 10
29	10.000 27	39	10.000 67	49	10.000 53	59	9.999 86	69	9.998 65	79	9.996 90

END OF REPORT