



CALIBRATION REPORT

ORDER No.

JANUARY 24, 2022

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MANUFACTURER: OHM-LABS
 DESCRIPTION: CURRENT SHUNT
 MODEL: CS-500
 SERIAL:

PROCEDURE: CS CAL
 LAB ENVIRONMENT: 23.1 °C / 19 %RH
 CALIBRATION DATE: 24/JAN/2022

MEASUREMENT DATA		
APPLIED CURRENT	MEASURED VALUE	UNCERTAINTY
100 A	199.987 $\mu\Omega$	32 $\mu\Omega/\Omega$
200	199.992	32
300	199.996	34
400	199.993	32
500	199.975	58

NOTES:

SHUNT WAS ALLOWED TO STABILIZE FOR 15 MINUTES AT EACH APPLIED CURRENT.
 THE REPORTED UNCERTAINTY INCLUDES AN ESTIMATED TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) VARIABILITY OF 20 $\mu\Omega/\Omega$ FOR MANGANIN TYPE SHUNTS, CORRESPONDING TO A +/- 1 °C AMBIENT TEMPERATURE UNCERTAINTY.

STANDARDS USED

ID	DESCRIPTION	MAKE & MODEL	CAL DUE
AS3198	RESISTANCE STANDARD	OHM-LABS 1021	31/MAR/2022
AS3401	RESISTANCE BRIDGE	GUILDLINE 9920	28/FEB/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

(Handwritten signature)

REVIEWED BY

