



MANUFACTURER:	OHM-LABS	PROCEDURE:	CS CAL
DESCRIPTION:	CURRENT SHUNT	LAB ENVIRONMENT:	21.9 °C / 22 %RH
MODEL:	CS-300	CALIBRATION DATE:	
SERIAL:			

MEASUREMENT DATA – AS FOUND / AS LEFT		
APPLIED CURRENT	MEASURED VALUE	UNCERTAINTY
60 A	0.100 004 4 mΩ	35 μΩ/Ω
120	0.100 003 7	33
180	0.100 001 8	31
240	0.099 998 6	32
300	0.099 994 6	33

**NOTES:**  
 SHUNT WAS ALLOWED TO FULLY STABILIZE AT EACH APPLIED CURRENT.  
 THIS SHUNT IS ROHS COMPLIANT.  
 THE REPORTED UNCERTAINTY INCLUDES AN ESTIMATED TEMPERATURE COEFFICIENT OF RESISTANCE (TCR) VARIABILITY OF 20 μΩ/Ω FOR MANGANIN TYPE SHUNTS, CORRESPONDING TO A +/- 1 °C AMBIENT TEMPERATURE UNCERTAINTY.

STANDARDS USED			
ID	DESCRIPTION	MAKE & MODEL	CAL DUE
AS3195	RESISTANCE STANDARD	OHM-LABS 2001	30/APR/2019
AS3401	RESISTANCE BRIDGE	GUILDLINE 9920A	31/MAR/2019

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/NC SL 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: \_\_\_\_\_

