



CALIBRATION REPORT

SEPTEMBER 22, 2016

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MANUFACTURER: OHM-LABS, INC.
 DESCRIPTION: HIGH VOLTAGE DIVIDER
 MODEL: KV-30A
 SERIAL:

PROCEDURE: HV CAL
 LAB ENVIRONMENT: 23 °C / 45 %RH
 CALIBRATION DATE: 22/SEP/2016
 CALIBRATION DUE:

MEASUREMENT DATA – DC RATIO				
APPLIED KV DC	10,000 : 1 RATIO	RATIO UNCERTAINTY	1,000 : 1 RATIO	RATIO UNCERTAINTY
5	9,999.72	0.42 : 1	999.963	0.040 : 1
10	9,999.80	0.43	999.969	0.043
15	9,999.88	0.47	999.977	0.041
20	9,999.98	0.42	999.989	0.041
25	9,999.94	0.42	999.990	0.044
30	10,000.22	0.47	1,000.020	0.043
LIMITS	9,999 – 10,001		999.9 – 1000.1	

MEASUREMENT DATA – AC RATIO		
APPLIED KV AC 60 HZ RMS	1,000 : 1 RATIO	AC RATIO UNCERTAINTY
5	1,000.29	0.52 : 1
10	999.89	0.55
15	1,000.27	0.54
20	1,000.20	0.56
LIMITS	999 - 1001	



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MODEL: KV-30A

SERIAL:

NOTES:

THE DIVIDER WAS TESTED ON A 24" SQUARE GROUND PLANE.

OUR DC BRIDGE IS A HIGH VOLTAGE WHEATSTONE CIRCUIT WHICH DOES NOT SIGNIFICANTLY BURDEN THE DC OUTPUT OF THE DIVIDER UNDER TEST. FOR DC RATIO MEASUREMENTS THE KV-30A DC METER IMPEDANCE WAS SET TO $>10 \text{ G}\Omega$.

THE DC METER IMPEDANCE SWITCH SETTING WAS VERIFIED.

AC RATIOS WERE DETERMINED USING AN AGILENT 3458A METER WITH AN INPUT IMPEDANCE OF $1 \text{ M}\Omega (+/-1 \%)$ SHUNTED BY $<180 \text{ PF}$.

THE AC OUTPUT CABLE WAS COAXIAL TYPE.

THE APPLIED VOLTAGES WERE WITHIN 1 % OF THE NOMINAL VALUE REPORTED.

ID	DESCRIPTION	STANDARDS USED		CAL DUE
		MAKE & MODEL		
AS3701	HIGH VOLTAGE BRIDGE	OHM-LABS HVB		29/DEC/2016
AS3714	HIGH VOLTAGE DIVIDER	OHM-LABS HVS		22/DEC/2016
AS3730	AC HV INDUCTIVE DIVIDER	HIVOLT PFT-1003		26/MAY/2020
AS3507	METER	AGILENT 34401A		10/JUN/2017
AS3530	METER	AGILENT 3458A		14/JAN/2017
AS3520	METER	AGILENT 3458A		13/SEP/2017

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:

APPROVED BY:

