



CALIBRATION REPORT #

PO #

SEPTEMBER 19, 2011

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ATTN: QUALITY CONTROL

MANUFACTURER: OHM-LABS
DESCRIPTION: MULTIPLE CURRENT SHUNT
MODEL: MCS
SERIAL:

PROCEDURE: CS CAL
LAB ENVIRONMENT: 23 °C / 48 %RH
CALIBRATION DATE: 19/SEP/2011
CALIBRATION DUE:

STANDARDS USED

ID	Description	Make & Model	Cal Due
AS3001	RESISTANCE STANDARD	OHM-LABS 200	11/FEB/2012
AS3012	RESISTANCE STANDARD	OHM-LABS 201	11/FEB/2012
AS3021	RESISTANCE STANDARD	OHM-LABS 202	11/FEB/2012
AS3195	RESISTANCE STANDARD	OHM-LABS 2001	11/FEB/2012
AS3303	THERMOMETER	ASL F300	28/MAR/2012
AS3400	RESISTANCE BRIDGE	GUILDLINE 9975	09/FEB/2012
AS3405	RANGE EXTENDER	GUILDLINE 9923	CAL NR
AS3401	RESISTANCE BRIDGE	GUILDLINE 9920-1	10/FEB/2012
AS3505	MULTIMETER	AGILENT 3468A	25/MAR/2012
AS3311	TEMP RH RECORDER	DICKSON THDX	11/APR/2012

COMMENTS:

PLEASE REFER TO PAGE (2) OF THIS CALIBRATION CERTIFICATE TO REVIEW THE DATA.

OHM-LABS, INC. CERTIFIES THAT THIS CALIBRATION IS TRACEABLE TO A 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 INCLUDES THE STANDARD DEVIATION OF SEVERAL MEASUREMENT RUNS ON SEPARATE DAYS. IT IS CALCULATED AT THE TIME OF TEST ONLY AND DOES NOT TAKE INTO ACCOUNT TRANSIT, USAGE, DRIFT OVER TIME, OR OTHER FACTORS AFFECTING STABILITY. THIS CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY OHM-LABS, INC.

PERFORMED BY:

REVIEWED BY:





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MEASUREMENT DATA

SHUNT	APPLIED A	RESISTANCE Ω	MILLI-OHMS mΩ	THERMISTOR KΩ	UNCERTAINTY μΩ / Ω
3 A / 1 Ω	0.75	0.999 997 3	0 999.997 3	10.605	5.57
	1.50	0.999 997 6	0 999.997 6	10.370	3.95
	2.25	0.999 999 8	0 999.999 8	9.702	4.80
	3.00	0.999 988 7	0 999.988 7	9.180	11.16
10 A / 0.1 Ω	2.5	0.100 001 980	100.001 980	10.504	12.7
	5.0	0.100 001 670	100.001 670	9.909	13.0
	7.5	0.100 001 030	100.001 030	9.211	13.5
	10.0	0.100 000 020	100.000 020	9.166	10.9
30 A / 0.01 Ω	7.5	0.009 999 895	9.999 895	10.466	9.5
	15.0	0.010 000 074	10.000 074	9.778	4.3
	22.5	0.010 000 190	10.000 190	9.123	10.4
	30.0	0.009 999 960	9.999 960	9.118	5.3
100 A / 0.001 Ω	25	0.000 999 973	0.999 973 2	10.369	24.9
	50	0.001 000 002	1.000 001 6	9.839	25.1
	75	0.001 000 002	1.000 002 1	9.302	28.7
	100	0.000 999 995	0.999 994 7	9.307	26.8
300 A / 0.000 1 Ω	75	0.000 099 986	0.099 985 98	10.159	39.6
	150	0.000 099 996	0.099 995 53	9.378	43.1
	225	0.000 099 994	0.099 993 93	9.311	46.0
	300	0.000 099 998	0.099 997 78	8.169	49.5

End of Report