

# CERTIFICATE OF CALIBRATION

CERTIFICATE NUMBER:  
LABORATORY:  
ISSUE DATE:  
CALIBRATION INTERVAL:

FCC004360  
Multimeter Calibrations Australia  
14. September 2009  
24 Months



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## INSTRUMENT INFORMATION

Manufacturer:	RISH
Model Number:	MULTI 14S
Serial Number:	090891
MCA ID Number:	MCA004347
Alternative ID:	N/A

## CUSTOMER INFORMATION

Cathodic Diecasting Qld P/L, 8 Endeavour Drive, Kunda Park QLD 4556, Australia.

## TRACEABILITY INFORMATION

Reference Standards:		
Fluke 8846A/SU	Serial Number: 9493006	Report Number: NC08/0137

THE MEASUREMENTS RECORDED IN THIS DOCUMENT ARE TRACEABLE TO AUSTRALIA'S NATIONAL STANDARDS OF MEASUREMENT.

## ADDITIONAL INFORMATION

Calibration interval as specified by customer.

## CONTROLLED ENVIRONMENT

Temperature: 22.0°C ± 2°C

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## GENERAL FUNCTIONS

Range / Function	Result
CONTINUITY BUZZER	PASS
DIODE TESTER	PASS

## CALIBRATION DATA

Range / Function	Applied Stimulus	Low Limit	High Limit	Response
DC VOLTAGE				
30.00mV (USING ZERO)	27.00mV	26.84	27.16	26.98
300.0mV	270.0mV	268.4	271.6	269.9
3.000V	2.700V	2.692	2.708	2.693
30.00V	27.00V	26.92	27.08	26.98
300.0V	270.0V	269.2	270.8	269.5
1000V	900V	896	904	900
AC VOLTAGE				
3.000V	2.700V@50Hz	2.679	2.721	2.692
30.00V	27.00V@50Hz	26.79	27.21	26.97
300.0V	270.0V@50Hz	267.9	272.1	269.5
1000V	900V@50Hz	892	908	898
DC CURRENT				
300.0uA	270.0uA	266.8	273.2	270.2
3.000mA	2.700mA	2.671	2.729	2.699
30.00mA	27.00mA	26.68	27.32	26.96
300.0mA	270.0mA	267.1	272.9	269.3
3.000A	2.700A	2.668	2.732	2.703
10.00A	9.00A	8.89	9.11	9.00
AC CURRENT				
3.000mA	2.700mA@50Hz	2.658	2.742	2.700
300.0mA	270.0mA@50Hz	265.8	274.2	269.2
10.00A	9.00A @50Hz	8.84	9.16	8.98

### UNCERTAINTIES:

DC VOLTAGE:	± (0.015% + 1 count of LSD)
AC VOLTAGE:	± (0.36% + 1 count of LSD)
DC CURRENT:	± (0.3% + 1 count of LSD)
AC CURRENT:	± (0.7% + 1 count of LSD)
RESISTANCE:	± (0.05% + 1 count of LSD)

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## CALIBRATION DATA

Range / Function	Applied Stimulus	Low Limit	High Limit	Response
RESISTANCE				
30.00 $\Omega$ (USING ZERO)	10.00 $\Omega$	9.92	10.08	9.98
300.0 $\Omega$	100.0 $\Omega$	99.2	100.8	99.9
3.00k $\Omega$	1.000k $\Omega$	0.995	1.005	1.000
30.00k $\Omega$	10.00k $\Omega$	9.95	10.05	10.00
300.0k $\Omega$	100.0k $\Omega$	99.5	100.5	100.1
3.000M $\Omega$	1.000M $\Omega$	0.993	1.007	0.999
30.00M $\Omega$	10.00M $\Omega$	9.79	10.21	10.04

### UNCERTAINTIES:

DC VOLTAGE:	$\pm (0.015\% + 1 \text{ count of LSD})$
AC VOLTAGE:	$\pm (0.36\% + 1 \text{ count of LSD})$
DC CURRENT:	$\pm (0.3\% + 1 \text{ count of LSD})$
AC CURRENT:	$\pm (0.7\% + 1 \text{ count of LSD})$
RESISTANCE:	$\pm (0.05\% + 1 \text{ count of LSD})$