



NATA Accredited
Laboratory

Number. 47

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TEST REPORT

Requested By

Brian Snell
Proprietor
Safetac Welding Products
Unit 6/7 Coolibah Way
BIBRA LAKE WA 6163

Date of Test: 18/03/2004
Temperature: 21.6°C
Rel. Humidity: 50%
Customer Ref: WO:LM021334; PO:227-897
Workbook No: WB20040245

Instrument Details

Test Item: Resistance Box
Maker: Safetac Welding Products
Model/Type: N/A
Serial No.: VRD Test 013

Method Employed

The Test Item was calibrated for 50, 100, 150 and 200 ohm resistance.

Measurements were carried out using the 4 wire configuration for resistance measurements and a repeat test was done injecting the resistors with a load of 10mW and calculating the resistances from the measured volt drops.

The Fluke 5700A Calibrator 6.5.1 was used to provide the mA Current.

The HP 3458A 5.7.13 digital multimeter was used for the measurements. An Auto-Calibration Procedure was performed on the DMM before the test commenced.

All measurements are carried out using equipment that holds calibration traceable to national standards held by the National Measurements Laboratory.

TEST REPORT

Uncertainties

The uncertainties of measurement at the 95% confidence level are:

50 Ω to 200 Ω $\pm 0.01\%$

Results

Resistance Measurements

(4 wire configuration)

Test Item	
Resistance	Correction
(Ω)	(Ω)
50.00	-0.30
100.00	-0.53
150.00	-0.65
200.00	-1.01

(10mW load)

Test Item	
Resistance	Correction
(Ω)	(Ω)
50.00	-0.36
100.00	-0.47
150.00	-0.71
200.00	-1.01


Approved Signatory

Date: 18 March, 2004

Testing Officer: John Pergunas