

14 Nelson Street, Chatswood, NSW 2067
P O Box 841, Artarmon, NSW 1570, Australia
Telephone 61 (02) 9410 5173
Facsimile 61 (02) 9410 5211

Item Current Shunt : 100A 100mV
Serial Number 0041239
Plant Number GW9012

Report Number 206153

Client
Attention

Order Number

Procedure The four terminal resistance was measured in a direct current circuit after the current had been applied for a period of four minutes. The results are given in Table 1.

The ac/dc correction factors for the four terminal resistance measured in an alternating current circuit are given in Table 2.

The ac resistance can be calculated from the formula: $R_{ac} = R_{dc} \times k$

Where R_{ac} is the ac resistance
 R_{dc} is the dc resistance given in Table 1
 k is the ac/dc correction factor given in Table 2.

Adjustment Nil

Compliance The instrument was found to be within manufacturer's specifications at the points tested.

Calibrated By M. J. Cook **Date** 19 March 2002

Calibration Interval 12 months

Uncertainties The measurement uncertainties at the 95% confidence level using a coverage factor of 2 are:
Resistance dc $\pm 0.01\%$
Resistance ac $\pm 0.1\%$

For further information please contact: Mike Cook (02) 9410 5191.

Authorised Signatory

Date Issued

Checked By

Date

This report applies only to the item tested and shall only be reproduced in full, unless approved in writing by Testing & Certification Australia.



The Laboratories are accredited by the National Association of Testing Authorities, Australia (Accreditation Nos. 62, 651, 717 and 1308) and the work reported herein has been performed in accordance with the terms of the relevant accreditation.

The tests, calibrations or measurements covered by this document are traceable to Australian national standards of measurement.

Results

Table 1

DC Resistance Voltage

Current (Amperes)	DC Resistance (milliohms)
20	0.999 03
30	0.999 02
50	0.998 99

Table 2

AC/DC Correction Factor

Current (Amperes)	AC/DC Correction Factor at 57 Hz
10	1.000 0
20	1.000 1

Checked By

Date

This report applies only to the item tested and shall only be reproduced in full, unless approved in writing by Testing & Certification Australia.



The Laboratories are accredited by the National Association of Testing Authorities, Australia (Accreditation Nos. 62, 651, 717 and 1308) and the work reported herein has been performed in accordance with the terms of the relevant accreditation.

The tests, calibrations or measurements covered by this document are traceable to Australian national standards of measurement.