

Certification of

EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

Administered by: Standards Australia Quality Assurance Services

Certificate of Conformity

Certificate No.: **02.2551X** Issue 0: **21 June 2002** Original Issue

Date of expiry: **21 June 2012**

Certificate Holder: **Ampcontrol Pty Ltd**
250 Macquarie Road
WARNERS BAY NSW 2282

Electrical Equipment: **R.O.C. Earth Continuity Relay**

Type of Protection and Marking Code: **[Ex ia] I**
AUS 02.2551X

Manufactured by: **Ampcontrol Pty Ltd**
250 Macquarie Road
WARNERS BAY NSW 2282

Issued by:



Engineering, Testing and Certification Centre

2 Smith Street, REDBANK, QLD 4301, Australia
Postal Address: PO Box 467, GOODNA, QLD 4300, Australia
Phone: + 61 7 3810 6381 Fax: + 61 7 3810 6366



Quality System Certified to
AS/NZS ISO 9001
Certification No 6039

STANDARDS AUSTRALIA



Standards Australia Quality Assurance Services Pty Limited A.B.N. 67 050 611 642

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This certificate is granted subject to the conditions as set out in Standards Australia Miscellaneous Publication MP 69 and the Procedures (Doc Q7134) of the scheme.

The electrical equipment and any acceptable variation to it specified in the schedule to this certificate and the identified documents, was found to comply with the following standards:

AS/NZS 60079.0:2000 **Electrical apparatus for explosive gas atmospheres
Part 0 : General requirements**

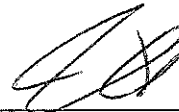
AS/NZS 60079.11:2000 **Electrical apparatus for explosive gas atmospheres
Part 11 : Intrinsic safety 'i' (Amdt. 1, February 2001)**

This certificate does not ensure compliance with electrical safety and performance requirements other than those included in the standards listed above.

The equipment listed has successfully met the examination and test requirements as recorded in

Test Report No: NI02/0010

File Reference: 01/0273 (P80990)



Signed for and on behalf of issuing authority

**Manager
Engineering, Testing and Certification Centre**

Position

21 June 2002

Date of issue

This certificate and schedule may not be reproduced except in full.

This certificate is not transferable and remains the property of Standards Australia Quality Assurance Services and must be returned in the event of its being revoked or not renewed.

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Schedule

Equipment:

The R.O.C. Earth Continuity Relay is used for earth continuity monitoring in underground coal mines.

The R.O.C. Earth Continuity Relay is located in the safe area and the cable and termination unit may be located in the hazardous area. A diode in the termination unit is used to determine cable continuity.

Drawings:

DRAWING NO.	DRAWING TITLE	REVISION No.	DRAWN/ REVISION DATE
ROC-Z-003	ROC EARTH CONTINUITY RELAY INSTALLATION DIAGRAM	3	22/5/02
ROC-Z-004	ROC EARTH CONTINUITY RELAY CONSTRUCTION DIAGRAM	0	1/08/01
ROC-Z-005 (Sheet 1 of 4)	ROC EARTH CONTINUITY RELAY INTRINSIC SAFETY & OVERVIEW	1	10/12/01
ROC-Z-005 (Sheet 2 of 4)	ROC EARTH CONTINUITY RELAY ROC_A BOARD SCHEMATIC	1	10/12/01
ROC-Z-005 (Sheet 3 of 4)	ROC EARTH CONTINUITY RELAY ROC_B BOARD SCHEMATIC	1	10/12/01
ROC-Z-005 (Sheet 4 of 4)	ROC EARTH CONTINUITY RELAY ROC_C BOARD SCHEMATIC	2	10/12/01
ROC-Z-006 (Pages 1 to 3 of 6)	ROC EARTH CONTINUITY RELAY PARTS LIST BOARD A	3	22/5/02

(DRAWINGS CONTINUED NEXT PAGE)

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Addendum to Certificate No... : **02.2551X**

Issue: **0**

Date of Issue: **21 June 2002**

DRAWING NO.	DRAWING TITLE	REVISION No.	DRAWN/ REVISION DATE
ROC-Z-006 (Page 4 of 6)	ROC EARTH CONTINUITY RELAY PARTS LIST BOARD B (IS CIRCUITRY)	3	22/5/02
ROC-Z-006 (Pages 5 and 6 of 6)	ROC EARTH CONTINUITY RELAY PARTS LIST BOARD C	3	22/5/02
ROC-Z-007 (Sheet 1 of 4)	ROC EARTH CONTINUITY RELAY INTRINSIC SAFETY ARTWORK TOP LAYER COPPER ARTWORK	2	11/07/01
ROC-Z-007 (Sheet 2 of 4)	ROC EARTH CONTINUITY RELAY INTRINSIC SAFETY ARTWORK BOTTOM LAYER COPPER ARTWORK	2	11/07/01
ROC-Z-007 (Sheet 3 of 4)	ROC EARTH CONTINUITY RELAY INTRINSIC SAFETY ARTWORK TOP LAYER COMPONENT OVERLAY	2	11/07/01
ROC-Z-007 (Sheet 4 of 4)	ROC EARTH CONTINUITY RELAY INTRINSIC SAFETY ARTWORK BOTTOM LAYER COMPONENT OVERLAY	2	11/07/01
ROC-Z-012	ROC EARTH CONTINUITY RELAY CASE LABELLING	3	22/5/02

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Conditions of Certification:

Entity parameter is listed below.

$$U_m = 130V$$

When used in conjunction with a power cable pilot conductor, the circuit is only intrinsically safe when the power cable is de-energised and any switches or components in the earth continuity circuit in the hazardous area shall then be flameproof or housed in a flameproof enclosure.

Additional Information:

No accessories have been assessed or tested in conjunction with the R.O.C. Earth Continuity Relay.

Testing of the R.O.C. Earth Continuity Relay was carried out to clauses 3.3.2.a, 3.3.2.b, 3.3.2.c. and 3.3.2.d of AS2081.2 - 1988 and is covered by test report NI02/0012.

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