

Certification of

EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

Administered by: Standards Australia Quality Assurance Services

Certificate of Conformity

Certificate No: AUS Ex 01.3758X **Issue 0:** 31/12/2001

Date of Expiry: 31/12/2011

Certificate Holder: Forced Potato Pty Ltd
Unit 3/13 Hoyle Avenue,
CASTLE HILL NSW 2154

Electrical Equipment: L0KR Intrinsically Safe Control System

Type of Protection: Ex ib

Marking Code: Ex ib I IP65
AUS Ex 01.3758X

Manufactured By: Forced Potato Pty Ltd
Unit 3/13 Hoyle Avenue,
CASTLE HILL NSW 2154

Issued by:



919 Londonderry Road Londonderry NSW 2753
Phone: (02) 4724 4900 Fax: (02) 4724 4999

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:

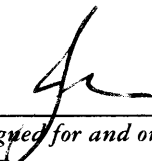
AS/NZS 60079.0-2000	Electrical equipment for explosive atmospheres – Part 0 - General requirements (incorporating Amendment 1)
AS/NZS 60079.11-2000	Electrical equipment for explosive atmospheres – Part 11 – Intrinsic Safety ‘i’ (incorporating Amendment 1)
AS 1939-1990	Degrees of protection provided by enclosures of electrical equipment (IP Code)

This certificate does not ensure compliance with electrical safety requirements and performance other than those included in the Standard(s) listed above

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

Test Report No: TestSafe 21822

File Reference: TestSafe 2001/011741 0001



Signed for and on behalf of issuing authority
Director
TestSafe Australia

Position
31/12/2001

Date of issue

Ex 01.3758X

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

Certificate No: AUS Ex 01.3758X **Issue:** 0 **Date of Issue:** 31/12/2001

Certified Equipment: The L0KR Intrinsically Safe Control System for Mini Mobile Bolter is referred to as MMB Control System designed for coal mine application. The MMB Control System comprises a Main Control Board, and a 4x20 characters LCD Display PCB, both housed in a stainless steel IP65 enclosure.

Conditions of Certification:

The following conditions of safe use shall be adhered to during installation:

1. Power Supply connection pins:

INPUT PARAMETERS	Connector X1 – Pins 1 & 2 are “+” Pins 3 & 4 are “-”
Maximum Input Voltage U_i	12.5 V
Maximum Input Current I_i	2.16 A
Maximum Internal Capacitance C_i	0 μ F
Maximum Internal Inductance L_i	0 mH

2. I.S. inputs on connector X2 pins 1 to 18 shall not use a source of power other than supply of U_i of 12.5 V connected at X1 pins 1 and 3.
3. 12 V output circuits shall be connected to REXROTH solenoids, Type GE35-2-A, 12 VDC 0.18 A, AUS Ex 3352X, only when the solenoids are connected by an adequately rated and segregated fuse of 0.5 A in series with the solenoid.
4. Voltage-free contact outputs have the following input parameters. No inductance or capacitance is to be connected to these outputs.

	Connector X1 – Pins 15 & 17
Maximum Input Voltage U_i	12.5 V
Maximum Internal Capacitance C_i	0 μ F
Maximum Internal Inductance L_i	0 mH

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Conditions of Certification: - continued

Addendum to Certificate No.....

5. The RS232 signals, TX and RX (pins 19,20), are not to be connected in the field for normal operation. They are intended for calibration purposes and are to be used in the safe area ONLY. They have the following maximum input parameters:

	Connector X1 – Pins 19 & 20
Maximum Input Voltage U_m	12.5 V
Maximum Input Power P_m	0.6 W

Drawing Schedule

Drawing No	Drawing Title	Issue	Date
B0KR3S	I/O Module and 4x20 Display (Schematic, Shts 1 to 3)	2.0	26/10/2001
B0KR30	PCA I/O Module and 4x20 Display (Parts List, Sht 1 to 3)	2.0	26/10/2001
B0KR3A	I/O Module with 4x20 Display (Components loading Shts 1 to 2)	2.0	26/10/2001
B0KR31	I/O Module with 4x20 Display (PCB Artwork, Shts 1 to 7)	2.0	26/10/2001
M0KR05	Mini Mobile Bolter Control Unit Gasket Cover (Sht 1 of 1)	01	15/03/2000
M0KR17	Mobile Mini Bolter Gasket (Sht 1 of 1)	01	01/08/2001
M0KR19	Mobile Mini Bolter Control Unit Engraving File SS Cover (Label, Shts 1 of 1)	01	25/10/2001
M0KR50	I.S. Control System Mobile Mini Bolter General Arrangement (Sht 1 of 1)	02	26/10/2001
0KR	Type 0KR Control System Description (Sht 1 to 3)	2.0	14/11/2001

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