

Department of Mines.

Dueensland Brisbane, 4000.

ELECTRICAL APPARATUS

Approval certificate for Intrinsic Safe Interface Units Model and Series MTL 2215

Manufactured by

Measurement Technology Ltd

Manufactured for

Control Devices Pty. Ltd.

Limitations to operation the apparatus may be operated at any location in an underground coal mine in Queensland in accordance with the requirements of the Coal Mining Act and conditions of approval. Approval number MDA Ex. i 1183 Old Associated Approval and Drawing numbers on reverse of sheet

23rd May. 1984.

In accordance with the provisions of the Queensland Coal Mining Act 1925 as amended it is hereby notified that on this date I have approved for use at Coal Mines in Queensland the above described apparatus subject to the following conditions.

- (1) The approval numbers listed above shall be stamped on a nameplate permanently attached to the appropriate enclosure or embossed upon its surface and a copy of this approval and conditions shall be supplied to each purchaser of this apparatus or machine.
- (2) The requirements of the Queensland Coal Mining Act 1925 as amended shall be complied with in regard to the installation, operation, electrical protection, maintenance, and repair of apparatus and machines.
- (3) In normal operation the temperature of the external surface of apparatus shall not exceed 100 degrees Celsius or the temperature rating of associated electrical insulation if of a lower classification.
- (4) There shall be no variation in materials, design or construction associated with this approval as is indicated by the drawings, certificates and information submitted to obtain this approval, without the prior consent of the Chief Inspector of Coal Mines.
 - (5) Unauthorised alteration or substitution of approved apparatus shall render this approval void.
- (6) When maintenance, alteration or repair is allowed to approved apparatus, compliance with the Queensland Coal Mining Act 1925 as amended and Australian Standards Association Specifications shall be shown to be maintained and established.

Chief Inspector of Coal Mines.

85256/2/80-1.500-P/L-Govt. Printer. Old.

Associated Drawings

SCI-69 sheet 1 issue 1 dated December 1982
C12215-01 sheet 1 issue 1 dated September 1982
C12215-01 sheet 2 issue 1 dated September 1982
C12215-01 sheet 3 issue 1 dated September 1982
C12215-01 sheet 4 issue 1 dated September 1982
C12215-01 sheet 5 issue 1 dated September 1982
C12215-01 sheet 6 issue 1 dated September 1982
C12215-01 sheet 7 issue 1 dated September 1982
C12215-02 sheet 1 issue 1 dated November 1982
C12215-03 sheet 2 issue 1 dated November 1982
C12215-03 sheet 1 issue 1 dated November 1982
C12215-03 sheet 2 issue 1 dated November 1982
C12215-03 sheet 2 issue 1 dated November 1982

Additional Conditions

- 7. A copy of the approval documents shall be provided with each such said apparatus supplied to a coal mine in Queensland.
- 8. Any repair to the said apparatus that may affect its explosion proof properties shall be carried out only at a workshop acceptable to the manufacturer.
- 9. Adequate precautions shall be taken to guard against danger arising from the interconnection of intrinsically safe sources of current and the charging of intrinsically safe circuits by leakage or induction from other circuits.
- 10. The said apparatus shall, with the exception of the intrinsically safe circuits be fully enclosed in order to satisfy the requirements of the Coal Mining Act.
- 11. The said apparatus shall be installed and maintained strictly in accordance with drawing SCI69 sheet 1.
- 12. No apparatus connected to the safe area terminals of the said apparatus shall be supplied from nor contain under normal or abnormal conditions a source of potential with respect to earth in excess of 250 volts rms or 250 volts dc.
- 13. The said apparatus may be used only for the purpose of switching circuits approved by the Chief Inspector of Coal Mines as being intrinsically safe and having a potential not exceeding 75 volts.
- 14. The manufacturer shall on his own responsibility carry out such tests and examinations as are necessary to ensure that the said apparatus provides satisfactory operation in service.
- 15. The input winding of the power transformer fitted to the control module shall be provided with the protection required by clause 2.3.2 of Australian Standard 1829-1981.

G.E. Hardie,

Chief Inspector of Coal Mines.

