



Member of the FM Global Group

FM Approvals
1151 Boston Providence Turnpike
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Route-Master Series 100 Intrinsically Safe Fieldbus System consisting of:

101B Rack, 103B Power Supply, 102B Isolator.

AIS/I/1/CD - HCGFB-902

RM114, RM118, RM118DIN, RM124, RM128. Device Coupler.

IS/I/1/CD/T4 Ta = 70°C; AIS/I/1/ABCD; Entity - HCGFB-902.

Entity Parameters:

Voc = 18.9V, Isc = 249.3mA, Po = 1.15W, La, Ca refer to Control Drawing Tables.

RMA10a. Device Coupler.

IS/I/1/CD/T4 Ta = 70°C; AIS/I/1/ABCD; Entity - HCGFB-902.

Entity Parameters:

Voc = 18.9V, Isc = 249.3mA, Po = 1.18W, La, Ca refer to Control Drawing Tables.

a = Spur Outputs: 4, 8 or X.

Special Conditions of Use:

1. *The Route-Master Series 100 Intrinsically Safe Fieldbus System shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.*

Equipment Ratings:

101B Rack, 103B Power Supply, 102B Isolator: Associated apparatus located in the Non-Hazardous location with Intrinsically Safe connections for use in Class I, Division 1, Groups C and D Hazardous (Classified) Locations when installed in accordance with Control Drawing HCGFB-902.

RM114, RM118, RM118DIN, RM124, RM128 Device Coupler: Intrinsically Safe apparatus for use in Class I, Division 1, Groups C and D; Temperature Class T4 Ta = 70 °C; with intrinsically safe connections to Class I, Division 1, Groups A, B, C and D Hazardous (Classified) Locations when installed in accordance with Entity requirements and Control Drawing HCGFB-902.

RMA104, RMA108, RMA10X Device Coupler: Intrinsically Safe apparatus for use in Class I, Division 1, Groups C and D; Temperature Class T4 Ta = 70 °C; with intrinsically safe connections to Class I, Division 1, Groups A, B, C and D Hazardous (Classified) Locations when installed in accordance with Entity requirements and Control Drawing HCGFB-902.



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FM Approved for:

Moore Industries International, Inc.
North Hills, CA 91343-6196 USA

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	2010
Class 3611	2004
Class 3810	2005
ANSI/ISA-60079-0	2009
ANSI/ISA-60079-11	2009

Original Project ID: 3009466

Approval Granted: May 10, 2002

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
051020	October 14, 2005		
3025649	November 20, 2006		
3042210	November 15, 2011		

FM Approvals LLC

Timothy Adam
Technical Team Manager

15 Nov. 2011

Date



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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

Route-Master Series 100 Intrinsically Safe Fieldbus System consisting of:

101B Rack, 103B Power Supply, 102B Isolator.
AIS//1/CD - HCGFB-902

RM114, RM118, RM118DIN, RM124, RM128. Device Coupler.
IS//1/CD/T4 Ta = 70°C; AIS//1/ABCD; Entity - HCGFB-902.

Entity Parameters:

Voc = 18.9V, Isc = 249.3mA, Po = 1.15W, La, Ca refer to Control Drawing Tables.

RMA10a. Device Coupler.

IS//1/CD/T4 Ta = 70°C; AIS//1/ABCD; Entity - HCGFB-902.

Entity Parameters:

Voc = 18.9V, Isc = 249.3mA, Po = 1.18W, La, Ca refer to Control Drawing Tables.

a = Spur Outputs: 4, 8 or X.

Special Conditions of Use:

- 1. The Route-Master Series 100 Intrinsically Safe Fieldbus System shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.*
- 2. It is the responsibility of the manufacturer to provide warning markings in French where required by local jurisdictions.*

Equipment Ratings:

101B Rack, 103B Power Supply, 102B Isolator : Associated apparatus located in the Non-Hazardous location with Intrinsically Safe connections for use in Class I, Division 1, Groups C and D Hazardous Locations when installed in accordance with Control Drawing HCGFB-902.

RM114, RM118, RM118DIN, RM124, RM128 Device Coupler: Intrinsically Safe apparatus for use in Class I, Division 1, Groups C and D; Temperature Class T4 Ta = 70°C; with intrinsically safe connections to Class I, Division 1, Groups A, B, C and D Hazardous Locations when installed in accordance with Entity requirements and Control Drawing HCGFB-902.



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RMA104, RMA108, RMA10X Device Coupler: Intrinsically Safe apparatus for use in Class I, Division 1, Groups C and D; Temperature Class T4 Ta = 70°C; with intrinsically safe connections to Class I, Division 1, Groups A, B, C and D Hazardous Locations when installed in accordance with Entity requirements and Control Drawing HCGFB-902.

FM Approved for:

Moore Industries International Incorporated
North Hills, CA 91343-6196 USA



This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:


CAN C22.2 No.157-92	1992
Reaffirmed	2002
C22.2 No.142-M1987	1987
Reaffirmed	2004

Original Project ID: 3009466
Canadian Project ID: 3025649C

Approval Granted: 11/20/06

Subsequent Revision Reports / Date Approval Amended			
Report Number	Date	Report Number	Date

FM Approvals LLC



 George A. Smith
 Assistant Vice President

11/20/06

 Date