



Member of the FM Global Group

FM Approvals  
1151 Boston Providence Turnpike  
P.O. Box 9102 Norwood, MA 02062 USA  
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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.

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



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Timothy Adam  
Technical Team Manager

15 Nov. 2011

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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

  
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George A. Smith  
Assistant Vice President

11/20/06  
\_\_\_\_\_  
Date