



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:

3000 System Isolators and Converters

NI / I / 2 / ABCD / T4 Ta= -25°C to +70°C

I / 2 / AEx / nA / IIC / T4 Ta= -25°C to +70°C

Model	Description
3101	Temperature Converter/non-Isolated TC SUP
3102	Temperature Converter/non-Isolated Pt100 SUP
3103	Isolated Repeater
3104	Isolated Converter
3108	Isolated Repeater / Splitter
3109	Isolated Converter / Splitter
3111	Temperature Converter/Isolated TC SUP
3112	Temperature Converter/Isolated Pt100 SUP
3113	Temperature Converter/Isolated HART-SUP
3114	Isolated Universal / Converter
3117	Isolated Converter
3118	Isolated Converter / Splitter
3185Aa	Loop Powered Isolator
3186Aa	2-Wire Transmitter Isolator
3331	Temperature Converter/Isolated TEMP-LOOP
3333	Temp. Converter/non-Isolated Pt100 LOOP
3337	Temperature Converter/Isolated HART-LOOP
3405	Power Connector Unit

a = 1 (1 Channel) or 2 (2 Channel)

Specific Conditions of Use:

1) In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70).

2) In Class I, Zone 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70). The equipment shall be installed in an enclosure with a minimum ingress protection rating of IP54 unless the apparatus is intended to be afforded an equivalent degree of protection by location.

Equipment Ratings:

Nonincendive for use in Class I, Division 2, Groups A, B, C & D, and Nonsparking for use in Class I, Zone 2, Group IIC, Hazardous (Classified) Locations.

FM Approved for:

PR electronics A/S
Rønne, DENMARK



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

Class 3600	2011
Class 3611	2004
Class 3810	2005
ANSI/ISA 60079-0 (12.00.01)	2009
ANSI/ISA 60079-15 (12.12.02)	2009
ANSI/ISA 61010-1 (82.02.01)	2004

Original Project ID: 3041043

Approval Granted: January 18, 2011

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3043017	June 6, 2011		
3043012	July 7, 2011		
3046709	July 10, 2012		
3048680	April 17, 2013		

FM Approvals LLC

J. E. Marquedant
Group Manager, Electrical

17 April 2013
Date



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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

3000 System Isolators and Converters

NI / I / 2 / ABCD / T4 Ta= -25°C to +70°C

I / 2 / Ex / nA / IIC / T4 Ta= -25°C to +70°C

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3337	Temperature Converter/Isolated HART-LOOP
3405	Power Connector Unit

a = 1 (1 Channel) or 2 (2 Channel)



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Specific Conditions of Use:

- 1) In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the Canadian Electrical Code (C22.1).*
- 2) In Class I, Zone 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the Canadian Electrical Code (C22.1). The equipment shall be installed in an enclosure with a minimum ingress protection rating of IP54 unless the apparatus is intended to be afforded an equivalent degree of protection by location.*

Equipment Ratings:

Nonincendive for use in Class I, Division 2, Groups A, B, C & D, and Nonsparking for use in Class I, Zone 2, Group IIC, Hazardous (Classified) Locations.

FM Approved for:

PR electronics A/S
Rønde, DENMARK

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

CAN/CSA-C22.2 No. 213-M87	2004
CAN/CSA-C22.2-E600790-0	2011
CAN/CSA-C22.2-E600790-15	2012
CAN/CSA-C22.2 No. 61010.1-04	2004

Original Project ID: 3041043C

Approval Granted: January 18, 2011

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