



Certificate of Compliance

Certificate: 22065534

Master Contract: 155295

Project: 70000579

Date Issued: May 06, 2013

Issued to: ABB Inc.
585 Charest BLVD East
Quebec
PROVINCE QUEBEC
Attention: Mr Jean Yves Nerron

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: E.Giusti
E.GIUSTI

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

PART A

Class I, Division 2, Groups A, B, C and D;

Class II and III, Groups E, F and G;T4A;

Ex nA nC IIC T4; Ex tb IIIC T85°C

Class I, Zone 2, AEx nA nC IIC T4

Class I, Zone 2, AEx opis IIC T4 Gc

Class II, AEx tb IIIC T85°C

LM80series Laser Distance Measuring Instrument; input rated

- 18-32V DC (24V typical) 0.40A peak, 0.20A continuous (standard version)

- 18-32V DC (24V typical) 0.52A peak, 0.32A continuous (with heated lenses option (AC & SC option));

Type 4X; IP66. Temperature Class T4;

-40°C ≤ Tamb ≤ +60°C

-40°C ≤ Tamb ≤ +45°C (with heated lenses option (AC & SC option));



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LM80series - Equipment type / model:

Application	Equipment Type / model	Description
Level measurement & Positioning	LM80.A	Aluminum Enclosure
	LM80.Axxxx	Aluminum Enclosure & accessories
	LM80.AC	Aluminum Enclosure with heated lenses
	LM80.ACxxxx	Aluminum Enclosure with heated lenses & accessories
	LM80.ACT804	Triclover unit option with heated lenses
	LM80.S	Stainless Steel Enclosure
	LM80.Sxxxx	Stainless Steel Enclosure & accessories
	LM80.SC	Stainless Steel Enclosure with heated lenses
	LM80.SCxxxx	Stainless Steel Enclosure with heated lenses & accessories

Where xxxx represent the different unit options without impacting certifications.

PART B

Class I, Division 2, Groups A, B, C and D

Class II, Groups E, F and G; Class III

Ex nAnC IIC T4

Ex tb IIIC T85°C

Class I, Zone 2, AEx nAnC IIC T4

Class II, AEx tb IIIC T85°C

Class I, Zone 2, AEx opis IIC T4 Gc

LM200series Laser Level Transmitter; input rated

- 18-32V DC (24V typical) 0.40A peak, 0.20A continuous (standard version)

- 18-32V DC (24V typical) 0.55A peak, 0.35A continuous (with heated lenses option (AC));

Type 4X; IP66; Temperature Class T6; -40°C ≤ Tamb ≤ +60°C

LM200series - Equipment type / model:

Application	Equipment Type / model	Description
Level measurement & Positioning	LM200.A	Aluminum Enclosure
	LM200.Axxxx	Aluminum Enclosure & accessories
	LM200.AC	Aluminum Enclosure with heated lenses
	LM200.ACxxxx	Aluminum Enclosure with heated lenses & accessories

Where xxxx represent the different unit options without impacting certifications.



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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-M1991 - General Requirements - Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 0.4-2004 - Bonding of Electrical Equipment
CAN/CSA C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
CAN/CSA C22.2 No. 94-M91 - Special Purpose Enclosures
CAN/CSA C22.2 No. 142-M1987 - Process Control Equipment
CAN/CSA C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA 60079-0:11 - Electrical apparatus for explosive gas atmospheres – Part 0: General requirements
CAN/CSA 60079-15:12 - Electrical apparatus for explosive gas atmospheres - Part 15: Type of protection "n"
CAN/CSA-60079-31:12 - Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure “t”
CAN/CSA 60529:2005 - Degrees of Protection Provided by Enclosures (IP Code) (identical national adoption)
FM 3810: 2005 - Approval Standard for Electrical Equipment for Measurement, Control, and Laboratory Use
ANSI/ ISA-61010-1 (82.02.01): 2004 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1 General Requirements
FM 3600:1998 - Approval Standard for Electrical Equipment for use in Hazardous (Classified) Locations General Requirements
FM 3611:2004 - Nonincendive Electrical Equipment for Use in Class I and II, Division 2, and Class III Divisions 1 and 2, Hazardous (Classified) Locations
ISA 60079-0 (12.00.01): 2009 (IEC ed.4 2009 mod.) - Electrical Apparatus for Use in Class I, Zone 0, 1 & 2 Hazardous (Classified) Locations: General requirements
ISA 60079-15 (12.12.02): 2009 (IEC ed.3 2005 mod) - Electrical Apparatus for Use in Class I, Zone 2 Hazardous (Classified) Locations: Type of protection “n”
ANSI/ISA-60079-31 (12.10.03)-2009 - Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure “t”
ANSI/ISA-60079-28 (12.21.02)-2012- Explosive atmospheres - Part 28: Protection of equipment and transmissions systems using optical radiation (IEC 60079-28)
ANSI/IEC 60529:2004 - Degrees of Protection Provided by Enclosures (IP Code) (identical national adoption)
ANSI/NEMA 250:2006 - Enclosures for Electrical Equipment (1,000 Volts Maximum)

As a guide:

IEC60079-28:2006 - Explosive atmospheres - Part 28: Protection of equipment and transmissions systems using optical radiation (IEC 60079-28)

MARKINGS

The following markings appear in a permanent and visible manner on each product, on CSA Accepted label(s):

- (1) Submittor's name
- (2) Model number
- (3) Serial number or date code
- (4) Electrical rating
- (5) Hazardous location designation
- (6) Special purpose enclosure designation, "TYPE 4X"



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- (7) CSA monogram
- (8) Temperature code rating
- (9) Ambient temperature range

Warning labels: The following markings and cautions appear in a permanent manner.

CAUTION: DO NOT OPEN WHEN EXPLOSIVE ATMOSPHERE IS PRESENT OR WHEN ENERGIZED
For Division 2 units – **WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2**

Note: (Bilingual Markings)

Jurisdictions in Canada may require these markings to be also in French. It is the responsibility of the customer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the customer to determine this requirement and have bilingual wording added to the "Markings".



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
2065534	October 9, 2008	Original Certification.
2531454	July 2, 2012	Update to report 2065534 to cover CSAus certification and update of the documentation.
70000579	May 06, 2013	Update to report 2065534 to cover Addition of gas applications to LM200; Addition of "heated lenses option"; Modify the ambient temperature range for LM80 ; Modify the input rating for LM80