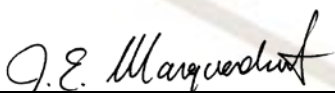


# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
2. **Certificate No:** FM17CA0157X
3. **Equipment:** LMS200 Magnetic Level Gauge Switch  
**(Type Reference and Name)**
4. **Name of Listing Company:** ABB Inc - BU Measurement Products
5. **Address of Listing Company:** 125 East County Line Rd  
Warminster PA 18974  
United States
6. The examination and test results are recorded in confidential report number:  
  
3060068 dated 6<sup>th</sup> June 2018
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
CSA C22.2 No. 0-10:2015, CSA C22.2 No. 0.4:2017, CSA C22.2 No. 0.5:2016, CSA C22.2 No. 25:2017, CSA C22.2 No. 30:2016, CSA C22.2 No. 94.1:2015, CSA C22.2 No. 94.2:2015, CSA C22.2 No. 213:2017, CSA C22.2 No. 157:2016, CAN / CSA-C22.2 No. 60079-0:2015, CAN / CSA-C22.2 No. 60079-1:2016, CAN / CSA-C22.2 No. 60079-11:2014, CAN / CSA-C22.2 No. 60079-31:2015, CAN / CSA C22.2 No. 60529:2016, CAN / CSA C22.2 No. 61010-1:2015
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. **Equipment Ratings:**  
  
Explosionproof for Class I, Division 1, Groups A, B, C, and D; Dust-ignitionproof for Class II, III, Division 1, Groups E, F, and G; and Flameproof for Class I, Zone 1, Ex db IIC T6...T1 Gb; and Protection by Enclosure for Zone 21, Ex tb IIIC T85°C...T450°C Db Hazardous Locations, indoor/outdoor Type 4X, IP66/67.

## Certificate issued by:



J.E. Marquedant  
Vice President, Manager, Electrical Systems

6 June 2018

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# SCHEDULE



Canadian Certificate Of Conformity No: FM17CA0157X

Intrinsically safe for Class I, II and III, Division 1, Groups A, B, C, D, E, F, and G; Intrinsically safe for Class I, Zone 0, Group IIC; Nonincendive for Class I, Division 2, Groups A, B, C and D when supplied with nonincendive field wiring parameters; Suitable for Class II, Division 2, Groups E, F and G; Suitable for Class III, Division 1 and 2 Hazardous Locations, indoor/outdoor Type 4X. Temperature classification T6...T5 for gases and vapors and T85°C to T450°C dusts and fibers for Ta = -40°C to 70°C when installed per control drawing 3KXL130200G0122.

11. The marking of the equipment shall include:

**For LMS200 XP version:**

Class I Division 1, Groups A, B, C and D T6...T1 Ta = -40°C to +70°C; Type 4X, IP66/67  
Class I, Zone 1, Ex db IIC T6...T1 Gb Ta = -40°C to +70°C; Type 4X, IP66/67  
Class II, III, Division 1, Groups E, F and G T6...T3B Ta = -40°C to +70°C; Type 4X, IP66/67  
Zone 21, Ex tb IIIC T85°C...T165°C Db Ta = -40°C to +70°C; Type 4X, IP66/67

**For LMS200 IS version:**

Class I,II,III, Division 1, Groups A, B, C, D, E, F and G; T6...T5 Ta = -40°C to +70°C; Type 4X  
Class I, Zone 0, Ex ia IIC T6...T5 Ta = -40°C to +70°C; Type 4X  
Class I, Division 2, Groups A, B, C and D; T6 Ta = -40°C to +70°C; Type 4X  
Class II, Division 2, Groups E, F and G; T6 Ta = -40°C to +70°C; Type 4X  
Class III, Division 1; T6 Ta = -40°C to +70°C; Type 4X

12. **Description of Equipment:**

**General** - The LMS200 Magnetic Level Gauge Switch is used for measuring fluid level. The LMS200 has two magnetically actuated single pole double-throw switches. The LMS200 enclosure mounts to an external pipe that contains a magnetic float to sense a high or low level within a vessel.

**Construction** - The LMS200 consists of a single compartment electronics housing with thread-on cover. The enclosure has a single threaded conduit opening.

**Ratings** - The LMS200 operates at 250 V ac/dc 10 A. The Level Gauge Switch is rated for use in an ambient temperature range of -40°C to +70°C.

**LMS200.a.b.c.d Magnetic Level Gauge Switch**

a = Approval: N4, M1  
b = Mounting: A1 or A2  
c = Insulation: Y0 or P1  
d = Electrical Connection Size: A1, A2, A3, C1, C2, C3, or C4

13. **Specific Conditions of Use:**

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T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmaprovals.com](mailto:information@fmaprovals.com) [www.fmaprovals.com](http://www.fmaprovals.com)

# SCHEDULE

Canadian Certificate Of Conformity No: FM17CA0157X

1. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
2. The non-metallic label and painted enclosure may store an electrostatic charge and become a source of ignition in Group II and III environments. Care should be taken to prevent the buildup of electrostatic charge. Clean only with a damp cloth.
3. Housing and cover are made from aluminum. Assess material suitability for the target environment before deploying.
4. The relationship between the temperature class, the maximum surface temperature, the ambient temperature and the process temperature is as follows:

For Gases and Vapours (for IS and non-incendive)	
Maximum Process Temperature	Temperature Class
75 °C	T6
90 °C	T5

For Dusts and Fibres (for IS and non-incendive)		
Maximum Process Temperature	Temperature Class	Temperature Class
80 °C	T85 °C	T6
95 °C	T100 °C	T5

For Gases and Vapours (for XP and Ex db)	
Maximum Process Temperature	Temperature Class
75 °C	T6
90 °C	T5
125 °C	T4
190 °C	T3
290 °C	T2
416 °C	T1

For Dusts and Fibres (for DIP and Ex tb)		
Maximum Process Temperature	Temperature Class	Temperature Class
80 °C	T85 °C	T6
95 °C	T100 °C	T5
130 °C	T135 °C	T4
160 °C	T165 °C	T3B

## 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

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# **SCHEDULE**



Canadian Certificate Of Conformity No: FM17CA0157X

**15. Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

**16. Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
6 <sup>th</sup> June 2018	Original Issue.

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