



Certificate of Compliance

Certificate: 80020805

Master Contract: 300754

Project: 80191222

Date Issued: 2024-01-31

Issued To: Shanghai LEEG Instruments Co., Ltd.
No.99 Duhui Road,
Minhang District, Shanghai, 201109
China

Attention: Zeming Chai

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.

Morton Ma
Issued by: Morton Ma



PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

CLASS - C225882 - PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US Standards

Class I, Division 1, Group A, B, C and D T6

Class I, Division 2, Group A, B, C and D T4

Class II, Division 1 Group E, F and G T80°C

Class III

APPLICABLE REQUIREMENTS

DMP305X and SMP858 series pressure transmitter, Operating voltage 9Vdc - 55Vdc, Output signal 4mA - 20mA, 1Vdc - 5Vdc, HART etc., $-40^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$, Maximum process temperature 80°C, IP66.



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Note: Refer to the Description section of this report for a complete model number designation for the DMP305X and SMP858 series Pressure transmitter.

CONDITIONS OF ACCEPTABILITY (HAZARDOUS LOCATION):

1. Temperature code depends on process temperature as follows:

Classification	T-code	Ambient Temperature	Process Temperature
Gas, Vapour & Mists			
CID1	T6	-40 to 60°C	-40 to 80°C
CID2	T4	-40 to 60°C	-40 to 80°C
Dusts, Fibres & Flying			
CII and CIII	T80°C	-40 to 60°C	-40 to 80°C

2. The branch pointing and entry point temperature may exceed 60°C when the process temperature is more than 80°C. If this occurs the end user shall select the suitable certified cable, conduit fittings and stopping plug for final installation. Use conductors rated at least 5°C above the maximum operating ambient.
3. Wiring to or from this equipment, which enters or leaves the explosion-proof enclosure, must utilize wiring methods suitable for Class I, Division 1 Hazardous Locations in accordance to the Canadian Electrical Code or National Electrical Code.

NOTES AND CONDITIONS OF ACCEPTABILITY (ORDINARY LOCATION):

Notes:

1. The above models are powered by external approved power supply. Indoor use, Pollution Degree 2.
2. Mode of operation: Continuous.
3. Environmental Conditions: Normal: -40 °C to 60 °C for detail see General product information, 2000 m max, 5% to 85% humidity(non-condensing).

Conditions of Acceptability:

1. These products are intended to be installed and serviced only by trained service personnel.
2. Equipment has only been tested for electrical safety. No evaluation of functional safety and performance characteristics has been conducted.
3. The device may only be powered by a power supply unit with double insulated or reinforced insulated from hazardous live circuits or class 2 according to CSA 223/UL 1310.
4. Only the transmitter was evaluated this time, the process medium pipeline was not evaluated.

5. IP classification was not part of the investigation; EUT is treated as ordinary device in this report.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 61010-1-12, UPD1: 2015, UPD2: 2016, AMD1: 2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
CSA C22.2 No. 25-17	Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations
CSA C22.2 No. 30-20	Explosion-proof enclosures for use in class I hazardous locations
CSA C22.2 No. 213-17+UPD1(2018) +UPD2(2019)+UPD3(2021)	Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations
ANSI/UL 61010-1 3rd Edition (2012), AMD1: 2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
FM 3600:2022	Approval Standard for Electrical Equipment for Use in Hazardous (Classified) Locations - General Requirements
FM 3611:2021	Approval Standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
FM 3615:2022	Approval Standard for Explosionproof Electrical Equipment General Requirements
FM 3616:2022	Approval Standard for Dust-Ignitionproof Electrical Equipment General Requirements

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

- Company name or trade mark or CSA master contract number (300754)
- Model number: As specified in the PRODUCTS section, above.
- Date code or Serial number: As specified in the PRODUCTS section, above.



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- Hazardous Locations Designation: As specified in the PRODUCTS section, above.
 - Temperature code rating: T6/T4 and T80°C
 - Ambient temperature range: -40°C - +60°C
 - Complete electrical rating: As specified in the PRODUCTS section, above.
 - Maximum Working Pressure (MWP)
 - Warning as below:

When product with seal not required:

- WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
- AVERTISSEMENT – NE PAS OUVRIR EN PRÉSENCE D’UNE ATMOSPHÈRE EXPLOSIVE.
- CAUTION – THE CABLE AND CABLE BRANCH TEMPERATURE IS IN USER MANUAL.
- AVERTISSEMENT – LA TEMPÉRATURE DE LA BRANCHE DE CÂBLE ET DE CÂBLE EST DANS LE MANUEL D’UTILISATION.
- CAUTION – SEAL NOT REQUIRED.
- AVERTISSEMENT – SCEAU NON REQUIS.

When product with seal required:

- WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
- AVERTISSEMENT - NE PAS OUVRIR EN PRÉSENCE D’UNE ATMOSPHÈRE EXPLOSIVE.
- WARNING - A SEAL SHALL BE INSTALLED WITHIN 50 mm OF THE ENCLOSURE.
- AVERTISSEMENT - ÉTANCHÉITÉTRE INSTALLÉE DANS UNE PLAGE DE 50 mm DU BOÎTIER
- CAUTION – THE CABLE AND CABLE BRANCH TEMPERATURE IS IN USER MANUAL.
- AVERTISSEMENT - LA TEMPÉRATURE DE LA BRANCHE DE CÂBLE ET DE CÂBLE EST DANS LE MANUEL D’UTILISATION.

Products certified under Class C225802, C225882 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





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
80020805	2020-06-15	Original Certification for DMP305X and SMP858 series pressure transmitter
80081425	2021-07-27	Certification update: <ol style="list-style-type: none"> 1. The maximum working pressure of Sensor A from 40MPa increase to 70MPa in the report. 2. Add the 1Vdc - 5Vdc and 1Vdc - 5Vdc+HART low power consumption output in the report. 3. Update the operating voltage to 9Vdc - 55Vdc in the report. 4. Add the T0 option for color "Grey" in the designation of the model number.
80154825	2023-03-29	Certification update: <ol style="list-style-type: none"> 1. Add "seal not required" in label. 2. Add marking Class I, Division 2, Groups A, B, C, D T4 3. Update the standard from CSA C22.2 No.30-M1986(R2016) to CSA C22.2 No.30-20
80191222	2024-01-31	Certification update: <ol style="list-style-type: none"> 1. Add three types new enclosure: <ol style="list-style-type: none"> a. The through hole position, shape and quantity changed. b. Used new fastening method for thread cover. c. Used new mechanical button, button cover plate and adjust housing construction. 2. Update the standard to CSA C22.2 No. 213-17+UPD1(2018)+UPD2(2019)+UPD3(2021), FM 3600:2022, FM 3611:2021, FM 3615:2022 and FM 3616:2022. 3. Add one new type DP sensor (Sensor C - 3809000028) and its process connection F/G/H with maximum working pressure 10MPa. 4. Update the maximum working pressure DP Sensor (180-S-000088) from 1MPa to 10Mpa. 5. Update the Designation of the model number for DMP305X and SMP858 series pressure transmitter. 6. WMCT for LEEG(SH).