



Certificate of Compliance

Certificate: 80081426 Master Contract: 300754
Project: 80222937 Date Issued: 2024-12-13
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.



Issued by: Amanda Ma
Amanda Ma

PRODUCTS

Class 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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

Class I, Division 1, Groups A, B, C and D T6...T1

Class I, Division 2, Groups A, B, C and D T4...T1

Class II, Division 1, Groups E, F and G T80°C...T400°C

Class III

LG200-WRT series temperature transmitter, Operating voltage 10.5Vdc - 55Vdc, 5Vdc/12Vdc - 32Vdc, 9Vdc-55Vdc or 16.5Vdc - 55Vdc, Output signal 4mA - 20mA, 1Vdc - 5Vdc, HART etc., $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}/+60^{\circ}\text{C}$, Maximum process temperature 400°C, IP66.

Note: Refer to the Description section of this report for a complete model number designation for the LG200-WRT series temperature transmitter.



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Conditions of Acceptability:

1. Temperature code depends on process temperature as follows:

T-code	Ambient Temperature	Process Temperature
Gas, Vapour & Mists		
T6	-40 to 55°C	-50 to 75°C
T5	-40 to 60°C	-50 to 90°C
T4		-50 to 130°C
T3		-50 to 195°C
T2		-50 to 290°C
T1		-50 to 400°C
Dusts, Fibres or Flyings		
T80°C	-40 to 55°C	-50 to 75°C
T90°C	-40 to 60°C	-50 to 90°C
T130°C		-50 to 130°C
T195°C		-50 to 195°C
T290°C		-50 to 290°C
T400°C		-50 to 400°C

2. The maximum service temperature of LG200-WRT series temperature transmitter head is determined by process medium and extension rod. The document "LEEG extension rod calculation 20220818, Rev.A" shall be followed when choice the temperature transmitter and considered the process medium temperature. End user shall ensure the temperature of any points of heater surface not ignite related explosive gas.
3. For Class III(Fibres or Flyings) equipment, end user shall ensure the maximum surface temperature of any surface in which can contact with the atmosphere shall not exceed 120°C (for equipment that may be overloaded) or not greater than 165°C (for equipment without overloading).
4. The branch pointing and entry point temperature may exceed 60°C when the process temperature is greater than 80°C. Under this condition 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.
5. Wiring to or from this equipment, which enters or leaves the explosion-proof enclosure, must utilize wiring methods suitable for Hazardous Locations in accordance to the Canadian Electrical Code (for Canada) or National Electrical Code (for USA).
6. These products are intended to be installed and serviced only by trained service personnel.
7. Equipment has only been tested for electrical safety. No evaluation of functional safety and performance characteristics has been conducted.
8. 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.
9. Only transmitter was evaluated this time, the process medium pipeline was not evaluated.



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10. IP classification was not part of 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 - Fourth Edition - Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations

CSA C22.2 No. 30-20 - Fourth edition - Explosion-proof equipment

CSA C22.2 No. 213-17 -Third Edition - 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 3600:2018 - Electrical Equipment for Use in Hazardous (Classified) Locations - General Requirements

FM 3611:2018 - Nonincendive Electrical Equipment for Use in Class I and II, Division 2, and Class III, Divisions 1 and 2, Hazardous (Classified) Locations

FM 3615 :2018 - Explosionproof Electrical Equipment – General Requirements

FM 3616:2011 - Dust-Ignitionproof Electrical Equipment General Requirements



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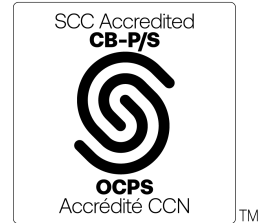
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Notes:

Products certified under Class(es) 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
80222937	2024-12-13	Update report 80081426 to add an alternative O-ring.
80170758	2023-08-04	1. Add "seal not required" in label. 2. Update the standard from CSA C22.2 No.30-M1986(R2016) to CSA C22.2 No.30-20
80081426	2022-09-21	Original cCSAus Certification on LG200-WRT series temperature transmitter