



Certificate of Compliance

Certificate: 80091613

Master Contract: 301183

Project: 80091613

Date Issued: 2022-02-02

Issued To: WISE Control Inc.
2022, Deogyong-daero, Giheung-gu,
Yongin-si, Gyeonggi-do, 17097
South Korea

Attention: Donghyun Kim

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: Jimmy Solanki
Jimmy Solanki



PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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

Ex eb IIC Gb;

Class I, Zone 1, AEx eb IIC Gb

The R810 series resistance temperature devices (RTDs) are typically used to measure internal temperatures of motors/generators. The R810 series Stator Winding RTDs are inserted in between the stator winding coils of the stator slots. Available with 3, 4, 6 and 8 wire options and are connected by means of flying leads.

Electrical Rating: Operating voltage (V) < 30V, measuring current = 0.2 – 5.0 mA and maximum measuring current = 5.0 mA. Service Temperature : -50 °C ~ 180 °C.



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Conditions of Acceptability:

- 1) During installations, it has to be made sure that the insulation of the thermo-sensor and the connecting cable does not get damaged.
- 2) During assembly and operation high bending stresses as well as punctual mechanical stresses have to be avoided.
- 3) The thermo-sensor may only be connected to approved power supplies / control units for passive resistance sensors that are intended for the use with the respective system, designed to provide safety extra-low voltage outputs. The power supply unit and the control unit need to provide terminals that correspond to the thermometer's type of circuitry. The electrical Parameters and the corresponding standard for the thermometer must be observed.
- 4) For Zone 1 'eb' applications the wiring method and termination shall meet the requirements of CEC (for Canada) and NEC (for USA) for Zone 1 applications and is subjected to acceptance of local authorities having jurisdiction.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 61010-1-12 + Amd 1 – 18	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
CAN/CSA C22.2 No. 60079-0:19	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA C22.2 No. 60079-7:16	Explosive atmospheres – Part 7: Equipment protection by increased safety “e”
ANSI/UL 61010-1-2018 Third Edition	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
ANSI/UL 60079-0-2020 Seventh Edition	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-7-2017 Fifth Edition	Explosive Atmospheres – Part 7: Equipment protection by increased safety “e”

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.



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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.

The following markings are provided on an SUS Tag Nameplate,. The Tag Nameplate is affixed to the RTD with a wire.

- Manufacturer's name: "WISE Control Inc.", or CSA Master Contract Number "301183", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model designation: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Manufacturing date, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, as shown on the Certificate of Conformity.
- The designation "CSA 21CA80091613X "
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Division" may be abbreviated "DIV", and the word "Groups" may be abbreviated "GRP" or "GP".
- The manufacturing location shall be identified if the equipment can be produced in more than one facility.
- The following optional additional markings may be used:
Class I, Division 2, Groups A, B, C & D *markings as per CAN/CSA C22.2 No. 60079-0:19, clause 29.1A, ANSI/UL 60079-0-2013, sections 29.18DV through 29.24DV*

Notes:

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
80091613	2022-02-02	Original issue : US and Canadian Certification of R810 Series Stator Winding RTD for Ex eb IIC Gb, Class I, Zone 1, AEx eb IIC Gb. Based on acceptance of IECEx DE/EPs/ExTR13.0030/02 (EPS 13.0029U). Includes update to current editions of standards.