

Certificate of Compliance

Certificate: 80143774

Master Contract: 601800

Project: 80143774

Date Issued: 2022-10-20

Issued to: OleumTech Corporation
19762 Pauling,
Foothill Ranch, California 92610
United States

Attention: Patrick Clark

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: Morton Ma
Morton 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

HRTD 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 HRTD temperature transmitter.

CONDITIONS OF ACCEPTABILITY

1. Temperature code depends on process temperature as follows:



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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	-40 to 60°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 HRTD series temperature transmitter head is determined by process medium and extension rod. The document “OleumTech 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 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. This equipment 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.
7. Equipment has only been tested for electrical safety. No evaluation of functional safety and performance characteristics have been performed.
8. Equipment is only to be installed by trained personal in accordance to the installation, set-up, operation and maintenance of comparable devices and certified as being capable of such work.
9. Only transmitter was evaluated this time, the process medium pipeline was not evaluated.



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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-M1986 (Reaffirmed 2016)	Explosion-proof enclosures for use in class I hazardous locations
CSA C22.2 No. 213-17	Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations
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	Approval Standard for Electrical Equipment for Use in Hazardous (Classified) Locations - General Requirements
FM 3611:2018	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 3615:2018	Approval Standard for Explosionproof Electrical Equipment General Requirements
FM 3616:2011	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's name: "< OleumTech Corporation.>", or CSA Master Contract Number "601800", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model designation: As specified in the PRODUCTS section, above.
- Manufacturing date, or serial number, traceable to year and month of manufacture.
- Hazardous Locations Designation: As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.

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- Electrical ratings: As specified in the PRODUCTS section, above.

- The CSA Mark, as shown on the Certificate of Conformity.

- Warning:

- 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 DIV.1 ENCLOSURE.
- AVERTISSEMENT - ÉTANCHÉITÉTRE INSTALLÉE DANS UNE PLAGE DE 50 mm DU DIV.1 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.
- CAUTION - A SEAL NOT REQUIRED IF THE EQUIPMENT IS INSTALLED IN ZONE 2, DIV.2 OR NON-EXPLOSIVE ATMOSPHERE.
- AVERTISSEMENT - ÉTANCHÉITÉTRE INSTALLÉE PAS NÉCESSAIRE SI LE MATÉRIEL EST INSTALLÉ DANS LA ZONE 2, DIV.2 OU DANS UNE ATMOSPHÈRE NON EXPLOSIVE

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

