



Certificate of Compliance

Certificate: 70194741

Master Contract: 273345

Project: 70194741

Date Issued: 2019-03-05

Issued to: Dandong Top Electronics Instrument (Group) Co., Ltd.
Huanghai Street 10#, Zhengxing District,
Dandong, Liaoning 118000
CHINA

Attention: Yiding Zhang

The products listed below 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 US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Jiyi (Leo) Guo

Jiyi (Leo) Guo

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Div. 1, Groups B, C and D;

- Transmitter, Types DLT 9010, rated 12-30Vdc, 22.5mA Max, Temperature Code T5 when ambient temperature is -40°C to 80°C, or Temperature Code T6 when ambient temperature is -40°C to 60°C. Type 4X, IP66.

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

Class I, Div. 1, Groups A, B, C and D;

- Transmitter, Types DLT 9010, rated input 12-30Vdc, 22.5mA Max. Temperature Code T5 when ambient temperature is -40°C to 70°C. Type 4X, IP66. IS input and output entity parameter for IS Class1, Division 1 as follows:



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| Input Parameter | | Output Parameter | |
|-----------------------|-------|-------------------|---------|
| Terminal : Bus+, Bus- | | Terminal : R1, R2 | |
| Ui | 30Vdc | Uoc | 5.88Vdc |
| Ii | 93mA | Isc | 59.4mA |
| Pi | 0.7w | Po | 87.31W |
| Ci | 0uF | Ca | 5.38uF |
| Li | 0uH | La | 10mH |

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

Class I, Div. 1, Groups B, C and D;

- Transmitter, Types DLT 9010, rated 12-30Vdc, 22.5mA Max, Temperature Code T5 when ambient temperature is -40°C to 80°C, or Temperature Code T6 when ambient temperature is -40°C to 60°C. Type 4X, IP66

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

Class I, Div. 1, Groups A, B, C and D;

- Transmitter, Types DLT 9010, rated input 12-30Vdc, 22.5mA Max; Temperature Code T5 when ambient temperature is -40°C to 70°C. Type 4X, IP66. IS input and output entity parameter for IS Class1, Division 1 as follows:

| Input Parameter | | Output Parameter | |
|-----------------------|-------|-------------------|---------|
| Terminal : Bus+, Bus- | | Terminal : R1, R2 | |
| Ui | 30Vdc | Uoc | 5.88Vdc |
| Ii | 93mA | Isc | 59.4mA |
| Pi | 0.7w | Po | 87.31W |
| Ci | 0uF | Ca | 5.38uF |
| Li | 0uH | La | 10mH |

Note:

- 1) The above model is Equipment Class III, Pollution Degree 2, installation Category II, 2000m max.
- 2) Environment Condition: Ambient temperature -40 to 60/70/80 °C, relative humidity 95% max.
- 3) For IS the equipment must be powered by a CSA approved safety barrier with protection type Class I, Division 1, Groups A, B, C, D, parameter Uoc <30Vdc, Isc<93mA, Po<0.7W, Ca >0uF, La >0uH.
- 4) This transmitter shall not be exposed to Acetic acid or Methanol.

APPLICABLE REQUIREMENTS

- CSA Standard C22.2 No. 0-10 (R2015) - General Requirements - Canadian Electrical Code, Part II
- CSA Standard C22.2 No. 0.4 -17 (R2017) - Bonding of Electrical Equipment
- CSA Standard C22.2 No. 30-M1986 (R2016) - Explosion-Proof Enclosures for Use in Class I Hazardous Locations



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|--|---|
| CSA Standard C22.2 No. 94.1-15 (R2015) | - Enclosures for electrical equipment, nonenvironmental considerations |
| CSA Standard C22.2 No. 94.2-15 (R2015) | - Enclosures for electrical equipment, environmental considerations |
| CSA Standard C22.2 No. 157-92 (R2016) | - Intrinsically safe and non-incendive equipment or use in hazardous locations |
| CSA Standard C22.2 No. 60079-0:11 | - Explosive atmospheres - Part 0: Equipment - General requirements |
| CSA Standard C22.2 No.60079-11:14 | - Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i” |
| CSA Standard C22.2 No. 61010-1-12 | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements |
| CAN/CSA C22.2 No. 60529: 16 | - Degrees of protection provided by enclosures (IP Code) |
| UL Standard UL 50 Thirteenth Edition | - Safety Enclosures for Electrical Equipment, Non-Environmental Considerations |
| UL Standard UL 50E Second Edition | - Safety Enclosures for Electrical Equipment, Environmental Considerations |
| UL Standard UL 913 Eighth Edition | - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations |
| UL Standard UL 1203 Fifth Edition | - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment For Use in Hazardous (Classified) Locations |
| UL Standard C22.2 No. 60079-0:2013 | - Explosive atmospheres - Part 0: Equipment - General requirements |
| UL Standard C22.2 No.60079-11:2013 | - Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i” |
| UL Standard UL 61010-1 Third Edition | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements |
| ANSI/IEC 60529-2004 | - Degrees of protection provided by enclosures (IP Code) |
| IEC 60529-2013 | - Degrees of protection provided by enclosures (IP Code) |



Supplement to Certificate of Compliance

Certificate:

Master Contract: 273345

*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 |
|----------------|-------------|---|
| 70194741 | 2019-03-05 | Original Certification. Transmitter, Types DLT 9010, rated 12-30Vdc, 22.5mA Max, Type 4X, IP66. XP: Class I, Division 1, Groups B, C and D T5: $-40^{\circ}\text{C} \leq \text{Tamb} \leq +80^{\circ}\text{C}$; T6: $-40^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$; IS: Class I, Division 1, Groups A, B, C, D T5: $-40^{\circ}\text{C} \leq \text{Tamb} \leq +70^{\circ}\text{C}$; |