



Certificate of Compliance

Certificate: 70002784

Master Contract: 257312

Project: 70059186

Date Issued: November 27, 2017

Issued to: Thermo Engineering S.r.l
Via Giuseppina, 19
26030 Malagnino (CR)
Italy

Attention: Mr. BOZZETTI

The products listed below are eligible to bear the CSA Mark shown



Issued by: E Giusti
E.Giusti

PRODUCTS

CLASS 2258 02 – PROCESS CONTROL EQUIPMENT – For Hazardous Locations

CLASS 2258 82 – PROCESS CONTROL EQUIPMENT – For Hazardous Locations – certified to U.S. standards

Class I, Division 1, Groups A, B, C, D

Class II, Division 1, Groups E, F and G

Ex db IIC Gb

Class I, Zone 1, AEx db IIC Gb

Ex tb IIIC Db

Zone 21 AEx tb IIIC Db

Component type connection heads models TST and TE-00041. These stainless steel connection heads provide ingress of protection of IP66.

Head model TE-00041 can be fitted with adaptors as per drawing TE-00041 C and plugs as per drawing TE-00041 D.

Maximum number of entries (including size, type and position) are given in manufacturer's instructions.

Ambient temperature range:

-40°C to +200°C for connection heads equipped with Viton o-ring.

-50°C to +200°C for connection heads equipped with Grey Silicone o-ring.

-60°C to +200°C for connection heads equipped with Liquid Silicon Rubber (LSR) Gasket.



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Note: These connection heads are certified as Component since they are not provided with terminal block or internal components. In this case, they are certified for use in equipment where the suitability of the combination in the final application is determined by CSA or local authorities having jurisdiction.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 0-M91	General Requirements - Canadian Electrical Code, Part II
CSA C22.2 No. 142-M1987 (R2009)	Process Control Equipments
CSA C22.2 No 60079-0:15	Explosive atmospheres - Part 0: Equipment - General requirements
CSA C22.2 No 60079-1:16	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
CSA C22.2 No. 30-M1986 (R2012)	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA C22.2 No 60079-31:15	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
UL916: 2007	Energy Management Equipment
UL1203-2009	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
ISA 60079-0 (12.00.01): 2013	Electrical Apparatus for Use in Class I, Zone 0, 1 & 2 Hazardous (Classified) Locations: General requirements
ISA-60079-1 (12.22.01): 2009 R2013	Electrical Apparatus for Use in Class I, Zone 1 Hazardous (Classified) Locations: Type of Protection Flameproof "d"
ISA-60079-31 (12.10.03): 2015	Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t"
FM3600: 2009	Electrical Apparatus for Use in Hazardous (Classified) Locations – General Requirements
FM3615: 2006	Electrical Apparatus for Use in Class I, Zone 1 Hazardous (Classified) Locations: Type of Protection Flameproof "d"



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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.

1. Submitter's identification (company name and/or file number and/or registered tradename);
2. Model designation;
3. Date of manufacture (or traceable serial number);
4. The $cCSA_{US}$ Monogram
5. Hazardous area;
6. Ambient temperature range;
7. Electrical ratings;
8. CSA Certificate number CSA.14. 70002784
9. Warning: 'DO NOT OPEN WHILE ENERGIZED' 'NE PAS OUVRIR SOUS TENSION'
10. Empty Enclosure with Ex component certificate

In case normally arcing, sparking or excessive heat-producing parts are installed inside the enclosure, following warning applies:

"A seal shall be installed within 50mm of the enclosure" and "Un scellement doit être installé à moins de 50mm du boîtier"

Nameplate adhesive label material approval information:

NA



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
70059186	November 27, 2017	Update to report 70002784 to modify the minimum ambient temperature to -60°C and to correct editorial items of Edition 1.
70002784	September 16, 2014	Original Certification.