



Certificate of Compliance

Certificate: 1305237

Master Contract: 202481

Project: 70188908

Date Issued: 2018-07-30

Issued to: ControlAir Inc.
8 Columbia Dr
Amherst, New Hampshire 03031
USA
Attention: Mr. Kevin McInnis

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



Issued by: Thomas
Munteanu
T. Munteanu, P.Eng.

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

Class I Division 1, Groups B, C, and D; Class II, Division 1, Groups E, F, and G:

Class I, Division 2, Groups A, B, C and D; Class II and III, Division 2, Groups F and G:

- I/P Converter model T950-AxA; rated 7 to 30Vdc, 4 to 20mA; Enclosure Type 4X; Temperature Code T6 (CL I Div 1), T4 (CL I, Div 2), T6 (CL II, III, Div 2); Maximum Ambient 70°C. Suitable for use with process medium methane or natural gas when supplied with captured exhaust option. For Conduit Systems, must be supplied with Potted Conduit Seal Kit (438-549-003). Rated Single Seal, MWP 100 PSI.

Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F, and G; Class III:

- E/P Converter model T900-xxAx; input power 7 to 30Vdc; input signal range of 0-10 Vdc, 1-9 Vdc, 0-5 Vdc, 1-5 Vdc; Temperature Code T4; Maximum Ambient 70°C; Enclosure Type 4X.
- I/P Converter model T900-AxAx; rated 7 to 30Vdc, 4 to 20mA; Temperature Code T4; Maximum Ambient 70°C.



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Class I, Division 2, Groups A, B, C, and D:

- E/P Converter models T900-xxDx and T900xxTx; input power 7 to 30Vdc; input signal range of 0-10 Vdc, 1-9 Vdc, 0-5 Vdc, 1-5 Vdc; Temperature Code T4; Maximum Ambient 70°C.
- I/P Converter models T900-AxDx and T900AxTx; rated 7 to 30Vdc, 4 to 20mA; Temperature Code T4; Maximum Ambient 70°C.

CLASS - C225804 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe, Entity - For Hazardous Locations-

**Class I, Div. 1, Groups C and D:
Ex ia IIB (Class I, Zone 0, Group IIB)**

- I/P Converter model T900-AxAx; Temperature Code T4; Maximum Ambient 70°C; Enclosure Type 4X; Intrinsically Safe with the following entity Parameters when installed as per drawing 431-990-023; $U_i = 30\text{ V}$, $I_i = 125\text{ mA}$, $P_i = 0.70\text{ W}$, $C_i = 0\text{ }\mu\text{F}$, $L_i = 0\text{ mH}$
- I/P Converter model T900-AxDx; Temperature Code T4; Maximum Ambient 70°C; Intrinsically Safe with the following entity Parameters when installed as per drawing 431-990-023; $U_i = 30\text{ V}$, $I_i = 125\text{ mA}$, $P_i = 0.70\text{ W}$, $C_i = 0.030\text{ }\mu\text{F}$, $L_i = 0\text{ mH}$
- I/P Converter model T900-AxTx; Temperature Code T4; Maximum Ambient 70°C; Intrinsically Safe with the following entity Parameters when installed as per drawing 431-990-023; $U_i = 30\text{ V}$, $I_i = 125\text{ mA}$, $P_i = 0.70\text{ W}$, $C_i = 0.030\text{ }\mu\text{F}$, $L_i = 0\text{ mH}$
- I/P Converter model T950-AxA; Temperature Code T4; Maximum Ambient 70°C; Enclosure Type 4X; Intrinsically Safe with the following entity Parameters when installed as per drawing 431-990-025; $U_i = 30\text{ V}$, $I_i = 125\text{ mA}$, $P_i = 0.70\text{ W}$, $C_i = 0\text{ }\mu\text{F}$, $L_i = 0\text{ mH}$ Suitable for use with process medium methane or natural gas when supplied with captured exhaust option. For Conduit Systems, must be supplied with Potted Conduit Seal Kit (438-549-003). Rated Single Seal, MWP 100 PSI.

APPLICABLE REQUIREMENTS

- CSA Standard C22.2 No. 0-10 - General Requirements - Canadian Electrical Code Part II.
CSA Standard C22.2 No. 0.4-04 - Bonding and Grounding of Electrical Equipment (Protective Grounding).
CSA Standard C22.2 No.0.5-M1982 - Threaded Conduit Entries
CSA Standard C22.2 No.25-M1966 - Enclosures for Use in Class II Groups E, F and G Hazardous Locations.
CSA Standard C22.2 No.30-M1986 - Explosion-proof Enclosures for Use in Class I Hazardous Locations.
CSA Standard C22.2 No.94-M1991 - Special Purpose Enclosures.
CSA Standard C22.2 No.157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.
CSA Standard C22.2 No.213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.
CSA Standard C22.2 No.1010.1-92 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use.
CAN/CSA E60079-0: 07 - Electrical apparatus for explosive gas atmospheres. PART 0: General requirements.
CAN/CSA E60079-11: 02 - -Electrical apparatus for explosive gas atmospheres. PART 11: Intrinsic safety "i".



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ANSI/ISA 12.27.01: 2003 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids.

MARKINGS

Model T900-xxAx

- Manufacturer's name
- Type number and date code
- Hazardous Location Ratings
- Maximum input and output ratings (Entity Parameters if applicable)
- Maximum ambient temperature
- Temperature Code Rating
- Control Drawing Reference
- The CSA mark
- Special Purpose Enclosure rating; Type 4X
- Certificate reference: 2002 1305237

Models T900-xxDx, T900xxTx, T900-AxDx and T900AxTx

- Manufacturer's name
- Type number and date code
- Hazardous Location Ratings
- Maximum input and output ratings (Entity Parameters if applicable)
- Maximum ambient temperature
- Temperature Code Rating
- Control Drawing Reference
- The CSA mark
- Certificate reference: 2002 1305237

Model T950X

- Manufacturer's name
- Type number and date code
- Hazardous Location Ratings
- Maximum input and output ratings (Entity Parameters if applicable)
- Maximum ambient temperature
- Temperature Code Rating
- Control Drawing Reference
- The CSA Mark
- Certificate reference: 2002 1305237
- Special Purpose Enclosure rating: Type 4X
- The term "Single Seal", as applicable
- Process Temperature Range, as applicable (-40°C to +70°C)
- Process Pressure Range. (Max 100 PSI)



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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
70188908	2018-07-30	Update of report 1305237 to add pressure range option 'F': 0-33 psig for T950-AxA convertor.
70098710	2016-11-14	Evaluation to update Report 1305237 of T900 and T950 I/P Converters to include numerous revisions to the Enclosure Dimensions. Quote assumes: 1. Quote assumes revisions submitted does not require any testing. 2. Quote include time to review/evaluation all revisions to confirm that no testing is required. 3. Additional funds to be requested for any testing determined required.
2513749	2012-04-04	Update to include revised drawings.
2413811	2011-06-09	Continuation of project 2300568 to update report 1305237 to include Single Seal, project includes one retest and report completion for CAD certification only.
2157574	2009-05-05	Update to Report 1305237 to include update to drawings and revisions.
2132557	2009-02-12	Update to cover correction to Product Listing (Addition of Class I, Div. 1 Groups C and D)
1498112	2003-11-21	Update to 1305237 to include Potted Conduit Seal Kit (448-796-001)