

NEW CSA “SECONDARY SEAL” APPROVAL for FAIRCHILD TXI7850 I/P TRANSDUCER



Fairchild Industrial Products' precision TCXI7850 I/P pressure transducer is designed for use in the toughest environments mother nature can dish out.

Now, in addition to its vibration and moisture resistance, the TCXI7850 has received **final approval from CSA for its CEC compliant factory seal design, rated “Secondary Seal - Single Seal” in accordance with ANSI/ISA 12.27.01:2003 specification.**

Fairchild is the first I/P transducer manufacturer to receive this approval. In fact, CSA approval was granted based on Fairchild's *existing design*. The Fairchild TXI7850 and its predecessor, the TXI7800, have always been and will continue to be manufactured with this approved seal design for gas supply applications.

The TXI7850 I/P Transducer can handle supply pressures from 20 to 120 psig and output ranges from 3-15 psig to 0-120 psig. This moisture-resistant transducer delivers high performance in a compact design to satisfy your application needs.

Both the TXI7800 and TXI7850 with the approved seal are suitable for use with Natural Gas supply and certified by FM, CSA® and ATEX.

When your application demands precision pressure control in a tough, moist environment, you can rely on Fairchild's line of Electro-Pneumatic Transducers.

Visit www.fairchildproducts.com or contact Telematic Controls Inc. to discuss any technical or sales requirements you may have for our complete line of Transducers, Regulators, Boosters, Relays or other related products.



PH: (403) 253-7939

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Certificate of Compliance

Certificate: 1025103 (LR 61725-16) **Master Contract:** 157176
Project: 1882047 **Date Issued:** 2007/08/23
Issued to: Fairchild Industrial Products
 Company
 3920 West Point Blvd.
 Winston-Salem, NC 27103
 USA
 Attention: Mr. Stan Przybylowicz

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



Issued by: Doug Simpson

Authorized by: Patricia Pasemko, Operations
Manager

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non -
Incendive Systems - For Hazardous Locations

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 02

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

Wire Nipple Seal Assembly P.N. EB-19818-3 and EB-19818-4. Rated 5A, 30V ac or 42V dc. Ambient -40 to 66°C. Gas migration seal maximum enclosure pressure 10 psi. Secondary Process Seal maximum pressure 125 psi.



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Class I, Groups B, C and D; Class II, Groups E, F and G; Encl Type 4X:

Class I, Div. 2, Groups A, B, C and D:

Current to pressure converter, Models TCXI7800-4__ , TCXI7850-4__ , TCXI7800-4__ E, TCXI7850-4__ E, TFXI7800-4__ , TFXI7850-4__ , TFXI7800-4__ E and TFXI7850-4__ E; rated 4-20mA, 30V dc max; max ambient 66 Deg C.

Class I, Groups C and D; Class II, Groups E, F and G; Encl Type 4X:

Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups E, F and G:

Current to pressure converter, Models TCXI7800-4__ N, -4__ EN, -4__ 2, -4__ E2, TCXI7850-4__ N, -4__ EN, -4__ 2, -4__ E2, TFXI7800-4__ N, -4__ EN, -4__ 2, -4__ E2 and TFXI7850-4__ N, -4__ EN, -4__ 2, -4__ E2; rated 4-20mA, 30V dc max; max ambient 66 Deg C. Supply pressure media may be air or Group D Gases (i.e. Natural Gas or Methane).

CLASS 2258 03

Class I, Groups C and D; Class II, Groups E, F and G; Encl Type 4X:

Current to pressure converter, Models TCXI7800-4__ , TCXI7850-4__ , TCXI7800-4__ E, TCXI7850-4__ E, TFXI7800-4__ , TFXI7850-4__ , TFXI7800-4__ E and TFXI7850-4__ E; rated 4-20mA, 30V dc max; intrinsically safe when connected through CSA Certified safety barriers as per Fairchild installation drawing ED-18971; max ambient 66 Deg C; temperature code T4.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-M91 - General Requirements- Canadian Electrical Code, Part II

CSA Std C22.2 No.25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations

CSA Std C22.2 No.30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CAN/CSA-C22.2 No.94-M91 - Special Purpose Enclosures

CSA Std C22.2 No.142-M1987 - Process Control Equipment

CAN/CSA-C22.2 No.157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA Std C22.2 No.213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

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



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MARKINGS

Converters:

-CSA Monogram;

-Submitter identification;

-Model number;

-Serial number

-Electrical rating;

-Hazardous locations designation;

-Enclosure designation ie. Encl Type 4X;

-Maximum ambient temperature;

-Temperature Code Rating; (Models TCXI7800-4 __, TCXI7850-4 __, TCXI7800-4 __E, TCXI7850-4 __E, TFXI7800-4 __, TFXI7850-4 __, TFXI7800-4 __E and TFXI7850-4 __E only)

-Caution re keeping cover tight while circuits are alive;

-The symbol "Exia" (Models TCXI7800-4 __, TCXI7850-4 __, TCXI7800-4 __E, TCXI7850-4 __E, TFXI7800-4 __, TFXI7850-4 __, TFXI7800-4 __E and TFXI7850-4 __E only);

- Statement re Intrinsic Safety and reference to I.S. installation instructions (Models TCXI7800-4 __, TCXI7850-4 __, TCXI7800-4 __E, TCXI7850-4 __E, TFXI7800-4 __, TFXI7850-4 __, TFXI7800-4 __E and TFXI7850-4 __E only);

-reference to installation IOM sheet II-5TXI7800 (Models TCXI7800-4 __N, -4 __EN, -4 __2, -4 __E2, TCXI7850-4 __N, -4 __EN, -4 __2, -4 __E2, TFXI7800-4 __N, -4 __EN, -4 __2, -4 __E2 and TFXI7850-4 __N, -4 __EN, -4 __2, -4 __E2 only)

-the words "Factory Sealed" and "Single Seal" (Models TCXI7800-4 __N, -4 __EN, -4 __2, -4 __E2, TCXI7850-4 __N, -4 __EN, -4 __2, -4 __E2, TFXI7800-4 __N, -4 __EN, -4 __2, -4 __E2 and TFXI7850-4 __N, -4 __EN, -4 __2, -4 __E2 only)

-Caution re. Substitution of Components...

-Caution re. Disconnection of Circuits...

Wire Nipple Seal Assemblies:

-CSA Monogram;