

Certificate of Compliance

Certificate: 1097923 (LR LR 110579-1)

Master Contract: 187869

Project: 1111640 (Edition 3)

Date Issued: July 19, 2000

Issued to: Crystal Engineering Corp.
390-A Manhattan
Grover Beach, CA 93433
USA

The products listed below are eligible to bear the CSA Mark shown, with adjacent indicator NRTL/C or with adjacent indicator "C" and "US".



OR



Issued by: Andrew Redeker, C.E.T.

Signature: P Andrew Redeker

CLASS

2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations
2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - To US Requirements

PRODUCTS

Class I, Groups A, B, C and D

Model 3x, IS3x, PC3xis, IS9x, and PCL3x, Pressure Calibrator; Intrinsically Safe; Battery Powered (Eveready P/N 216 & Duracell P/N 1604); Temperature Code T4; Maximum pressure 36 PSI (low) & 3000 PSI (High). The mA connectors have the following Entity Parameters:

V _{max} = 30V	V _{oc} = 5V
I _{max} = 100mA	I _{sc} = 400mA
C _i = 2.3uF	C _a = 0.135uF
L _i = 0mH	L _a = 100uH

Note: The x in the Model number designates changes in the internal pressure sensors, membrane keypad, mA connector option, and different pressure sensors.

The "C" and "US" indicator adjacent to the CSA Mark signifies that the product has been evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canada. This includes products eligible to bear the NRTL indicator. NRTL, i.e. Nationally Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



CSA INTERNATIONAL

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APPLICABLE REQUIREMENTS

- CSA Standard C22.2 No 0-M1991 - General Requirements - Canadian Electrical Code Part II.
- 157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.
- UL 913, Fifth Edition - Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations.



CSA INTERNATIONAL

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.*

Issued By: Andrew Redeker, C.E.T.

Signature: P Andrew Redeker

Product Certification History

Project	Date	Description
LR 110579-1	February 12, 1998	Original Certification
1097923	July 17, 2000	Supercedes Report LR 110579-1 to update report to reflect alternate Models IS3x, PC3xis, IS9x, and PCL3x. Certificate of Compliance Re-Issued.
1111640	July 19, 2000	Update to include NRTL/C rating