



Certificate of Compliance

Certificate: 70061366 **Master Contract:** 265722 (265722)

Project: 70121839 **Date Issued:** 2017-05-16

Issued to: Contrec Ltd.
Riverside
Canal Road
Sowerby Bridge, West Yorkshire HX6 2AY
UNITED KINGDOM
Attention: Tom Casson

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: *Semyon Baum*
Semyon Baum

PRODUCTS

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

CLASS - C225884 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity-- For Hazardous Locations - Certified to US Standards

Class I, Groups C and D T4:

Rate Totalizer, Models 202Ai and 202Di or Alternate Model Numbers for 202Di as follows: 505.22, 505.24, 505.42, and 505.44. Rate Totalizers, 214Di Batch Controller, 220i Level Monitor and 250i Indicator; Battery (P/N S1200BATL) / Barrier powered; Maximum Ambient 60°C; Intrinsically safe when connected as per manufacturer's drawing nos. 1884ID, 1885ID, 1886ID and 1887ID.

Rate Totalizer, Models 202Ai.xxA, 202Di.xxA. Rate Totalizers, 214Di and 214Di.xxA Batch Controller, 220i and 220i.xxA Level Monitor, 250i and 250i.xxA Indicator; Battery (P/N S1200BATL) / Barrier powered; Maximum Ambient 60°C; Intrinsically safe when connected as per manufacturer's drawing nos. 1884ID, 1885ID, 1886ID and 1887ID. Models 202Ai.xxA, 202Di.xxA, 220i.xxA, 250i.xxA, 214Di.xxA – identical with previously certified models accept a new alternate aluminium enclosure.

The equipment has the following Entity Parameters:



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Models 202Ai, 220i, and 250i

Terminals 1 & 2, 3 & 4, 5 & 6, 7 & 8, 10 & 11

V_{max} = 28Vdc

I_{max} = 93mA

P_{max} = 0.653W

C_i = 0.02uF

L_i = 0 uH

Models 202Di and 214Di

Terminals 7 & 8

V_{max} = 24V

V_{oc} = 10.0V

I_{max} = 20mA

I_{sc} = 9mA

P_{max} = 320mW

C_i = 0.002uF

C_a = 60uF

L_i = 0 mH

L_a = 1.5H

Terminals 1 & 2, 3 & 4, 5 & 6

V_{max}=28V

I_{max}= 93mA

P_{max} = 0.653W

C_i = 0.1uF

L_i = 0 mH

APPLICABLE REQUIREMENTS

CSA C22.2 No 0-10 - General Requirements - Canadian Electrical Code Part II.

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

CSA C22.2 No 157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

UL 508, Seventeenth Edition - Industrial Control Equipment.

UL 913, Sixth Edition - Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations.

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.



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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.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US, or with adjacent indicator 'US' for US only, or without either indicator for Canada only.

1. Manufacturer's name "Contrec Manufacturing", CSA Master Contract Number "265722" in lieu of the Manufacturer's name adjacent to the CSA Mark.
2. Catalogue / Model designation.
3. Complete electrical rating (Entity parameters as stated above)
4. Date code / Serial number traceable to month and year of manufacture.
5. Hazardous Location designations.
6. The symbol "Exia".
7. The words "INTRINSICALLY SAFE, WHEN CONNECTED AS PER INSTALLATION DRAWING"
"
8. Temperature Code T4
9. Maximum Ambient 60°C
10. The CSA Mark with the NRTL/C qualifier.
11. The following bilingual cautions: WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY:



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
70121839	0000-00-00	Evaluation to update Report 70061366 to include Models 202Ai.xx A, 202Di.xx A, 220i.xx A, 250i.xx A, 214Di.xx A – identical with previously certified models except a new alternate aluminum enclosure and alternate aluminum marking labels.
70061366	2016-05-18	Per CSA Transfer Report 265722-70054302: The 200 Series, called out under reports 244016-1110114 has been transferred to Contrec Manufacturing (UK) Ltd (Master Contract 265722).