



Certificate of Compliance

Certificate: 2206083

Master Contract: 217005

Project: 2206083

Date Issued: 2009/10/23

Issued to: RAE Systems, Inc.
3775 North First St
San Jose, CA 95134
USA
Attention: James Pan

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.



Rich Masek

Issued by: Rich Masek

PRODUCTS

- CLASS 2258 84** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - - For Hazardous Locations - Certified to US Standards
- CLASS 2258 04** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

Class I, Division 1, Groups A, B, C, D T4

- Model FTB-1000, RAEPowerPak containing NiMH rechargeable cells and providing an intrinsically safe output with parameters: $U_o = 3.6 \text{ V}$, $I_o = 3.2 \text{ A}$, $P_o = 3.1 \text{ W}$, $C_o = 100 \text{ }\mu\text{F}$, $L_o = 3.4 \text{ }\mu\text{H}$ and $L_o / R_o: 20.6 \text{ }\mu\text{H}/\#$ and with charging input parameters: $U_i = 10 \text{ V}$, $I_i = 3.33 \text{ A}$, $P_i = 8.8 \text{ W}$, $C_i = 0.1 \text{ }\mu\text{F}$, $L_i = 0.1 \text{ }\mu\text{H}$ and $U_m = 11 \text{ V}$. -40 to 55 °C

APPLICABLE REQUIREMENTS

- CAN/CSA C22.2 No. 0-M91 - General Requirements - Canadian Electrical Code, Part II
- CAN/CSA C22.2 No. 142-M1987 - Process Control Equipment



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

ANSI/UL913:2006 - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations

ANSI/UL916:2007 - Energy Management Equipment

MARKINGS

- Manufacturer's name or CSA Master Contract Number placed adjacent to the CSA Mark.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- 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.
- Hazardous Location designation, as specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- The following words:
 - "Exia"
 - "Intrinsically Safe"
 - "WARNING: Substitution of components may impair intrinsic safety"
 - "Read User's Manual F03-4001-000"
 - "Maximum non-hazardous voltage not to exceed 11 V"