



# Certificate of Compliance

**Certificate:** 2440615

**Master Contract:** 217005

**Project:** 2440615

**Date Issued:** September 27, 2011

**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.*



*Rawn Murphy*

**Issued by:** Rawn Murphy

## **PRODUCTS**

**CLASS 2258 04** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

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

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

**Ex ia IIC T4**

**AEx ia IIC T4**

Model SolarPak Type No. : FTS-20 Solar-powered charger, intrinsically safe with entity parameters; Pin1: Uo: 9.96 V, Io: 3.23 A, Po: 8.03W, Co: 3 µF, Lo: 3.20 µH / Pin2: Uo: 9.56 V, Io: 23 mA, Po: 12 mW, Co: 3.0 µF, Lo: 66 mH; Ambient Temperature -40°C < Ta < +60°C; Enclosure - IP65.



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**APPLICABLE REQUIREMENTS**

CSA Standard C22.2 No. 0-10 Tenth Edition	General requirements — Canadian Electrical Code, Part II
CSA Standard C22.2 No. 142-M1987 Third Edition	Process Control Equipment
CAN/CSA Standard C22.2 No.157-92 Third Edition	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CAN/CSA Standard C22.2 No. 60079-0:07 First Edition	Electrical Apparatus for explosive gas atmospheres – Part 0: General Requirements
CAN/CSA Standard E60079-11-02 Second Edition	Electrical Apparatus for Explosive Gas Atmospheres – Part 11: Intrinsic Safety "i"
CAN/CSA Standard C22.2 No. 60529:05 First Edition	Degrees of protection provided by enclosures (IP Code)
UL Standard 916 (Fourth Edition)	Energy Management Equipment
UL Standard 913 (Seventh Edition)	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations
UL Standard 60079-0 (Fifth Edition)	Explosive atmospheres – Part 0: Equipment – General requirements
UL Standard 60079-11 (Fifth Edition)	Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety "i"
ANSI/IEC Standard 60529-2004 (Edition 2.1)	Degrees of Protection Provided by Enclosures (IP Code)

**MARKINGS**

The following markings are provided on a 2mm thick stainless steel plate attached to the enclosure using 4 drive screws:

- Manufacturer’s name, “Rae Systems”, or CSA Master Contract Number “217005”, adjacent to the CSA Mark in lieu of Manufacturer’s name.



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- Model number: as specified in the PRODUCTS section, above.
- Ambient temperature rating: as specified in the PRODUCTS section, above (may be abbreviated).
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- The CSA Mark, as shown on page 1 of the Certificate of Conformity.
- Hazardous Location designation: as specified in the PRODUCTS section, above.
- Temperature Code: as specified in the PRODUCTS section, above (May appear on control drawing).
- The following words:
  - “INTRINSICALLY SAFE” or “Exia”
  - “WARNING– EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY” (Equivalent wording is acceptable).
  - “WARNING– TO PREVENT THE IGNITION OF EXPLOSIVE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING”
  - “11.2440615” (Certificate number) adjacent to the CSA Monogram.

*Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".*