

Certificate of Compliance

Certificate: 2306439

Master Contract: 217005

Project: 2306439

Date Issued: July 21, 2010

Issued to: Rae Systems Inc.
3775 North First Street
San Jose CA95134
UNITED STATES OF AMERICA
Attention: Mr. Ole Olsen

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



Eric Giusti
Issued by: Eric Giusti

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 against U.S. Standards

Class I GRPS A,B,C,D T4, Ta = 55 °C,

DIGI PID Sensor Type DS-100 and Type DS-101, intrinsically safe with Entity parameters as follows:
Supply/Output circuit (connector):

Vmax = 6,13 V; Imax = 1,5 A; Pmax = 1,225 W; Ci = 20,2 µF; Li = 1 µH (linear characteristic)

The Photo Ionization Gas Detector DIGI PID sensors types DS-100 and DS-101 are used for detection of organic vapours.

The DIGI PID sensor can be connected to a measurement system that requires a PID input. The data will be transferred via a serial digital USART interface or analog voltage.

Ambient temperature range -20 °C to +55 °C.

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APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91(R2006)
CAN/CSA-C22.2 No. 157-92 (R2006)

ANSI/UL Standard 913

C22.2 NO. 142-M1987 (R2004)
UL Standard 508

- General Requirements Canadian Electrical Code, Part II
- Intrinsically Safe and Non-incendive Equipment for use in Hazardous Locations.
- Intrinsically Safe Apparatus and Associated Apparatus For Use in Class I, II and III, Div. 1 Hazardous (Classified) Locations
- Process Control Equipment.
- Industrial Control Equipment

MARKINGS

The marking is laserprinted on the surface of the stainless steel cylindrical of the enclosure.

- (1) Submittor's name, trademark
- (2) Catalogue / Model designation.
- (3) Date code / Serial number traceable to month and year of manufacture.
- (4) The cCSAus Monogram
- (5) The words "Class I GRPS A,B,C,D T4"
- (6) Maximum ambient temperature $T_a = +55\text{ }^{\circ}\text{C}$
- (7) "Exia" or "Ex I"
- (8) The words: "Intrinsaically safe" "SECURITE INTRINSEQUE"
- (9) WARNING:"SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY"



Supplement to Certificate of Compliance

Certificate: 2306439

Master Contract: 217005

*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
2306439	July 21, 2010	Original cCSAus Certification of DIGI PID Sensor Type DS-100 and Type DS-101