

Certificate of Compliance

Certificate: 1775579

Master Contract: 207045

Project: 1775579

Date Issued: 2006/11/08

Issued to: Cal-Scan Services Ltd.
4188 93rd St
Edmonton, AB T6E 5P5
Canada
Attention: Garth Hanson

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by:

P Andrew Redeker
Andrew Redeker

Authorized by: Patricia Pasemko, Operations Manager

Patricia Pasemko

PRODUCTS

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

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

Class I, Division 1, Groups C,D

Corvus xx solar battery charger, where xx can be any of the following suffixes (H-ZE, H-E, H-Z, P, P-ZE, P-E, P-Z); 6.6Vdc Battery Powered (P/N CYCLON 9D/BPW); Temperature Code Rating T3C; Maximum Ambient 50°C; Install as per drawing CV-001; Intrinsicly Safe with the following Entity Parameters:

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National 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.



Certificate: 1775579

Master Contract: 207045

Project: 1775579

Date Issued: 2006/11/08

Solar Input Parameters $V_{max} = 16V$, $I_{max} = 1.1A$, $P_{max} = 7W$

Power Output parameters $V_{oc} = 7.9V_{dc}$, $I_{sc} = 300mA$, $P_{max} = 2.37W$, $C_a = 100\mu F$, $L_a = 1.5mH$

RS 485 Communication parameters

$V_{oc} = 5.9V_{dc}$, $I_{sc} = 300mA$, $P_{max} = 1.77W$, $C_a = 100\mu F$, $L_a = 1.5mH$

$V_{max} = 30V_{dc}$, $I_{max} = 250mA$, $C_i = 0\mu F$, $L_i = 0\mu H$

APPLICABLE REQUIREMENTS

C22.2 No 0 - M1991 - General Requirements - Canadian Electrical Code Part II.

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

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



Supplement to Certificate of Compliance

Certificate: 1775579

Master Contract: 207045

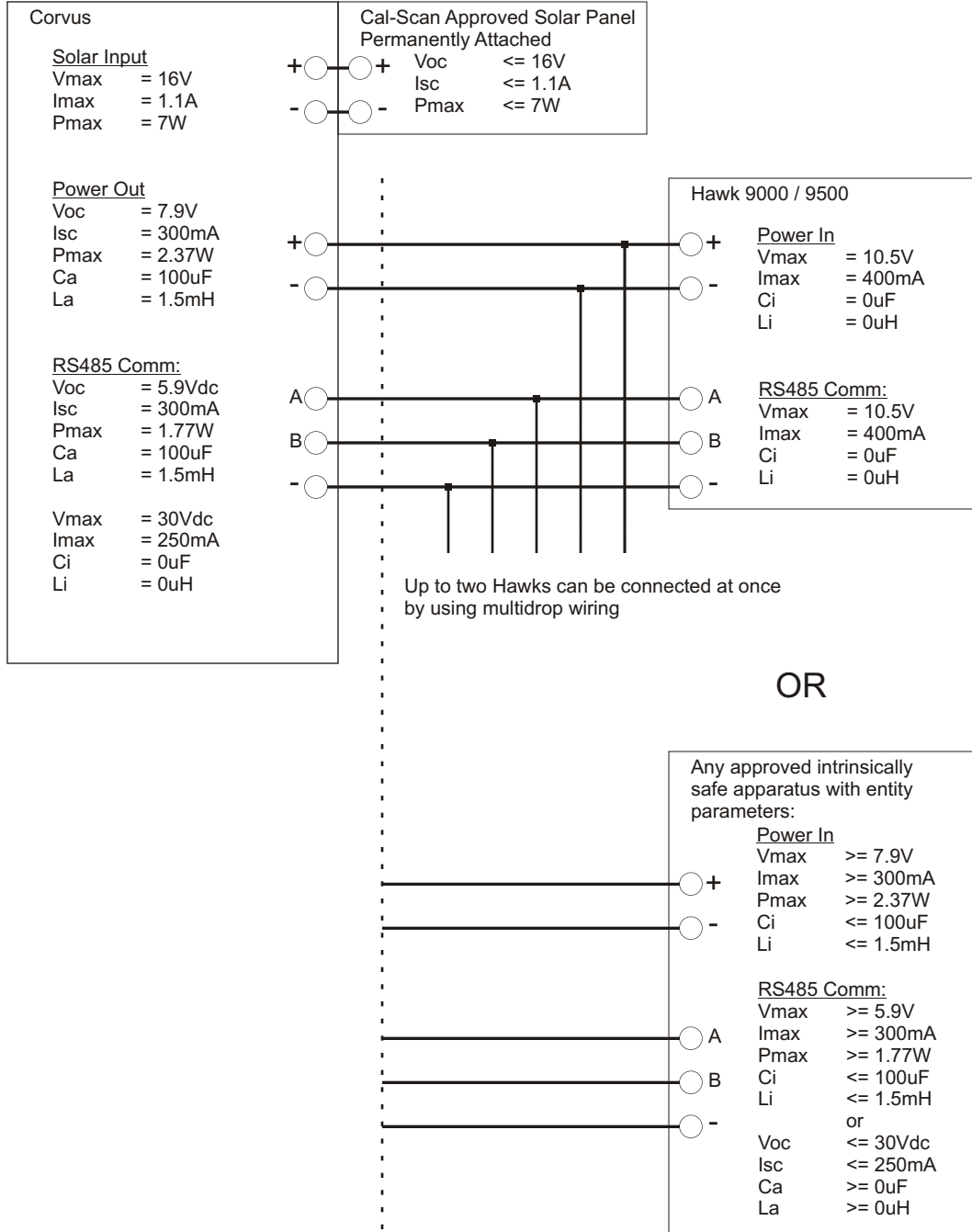
The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1775579	2006/11/08	cCSAus evaluation of Corvus Series Power/Comm Module for use in Class I, Division 1, Groups C & D.

→ Hazardous Location

Class I Div I
Groups C,D
Temp Class T3C



Installation Drawing For Corvus
Power and Communication
Drawing# CV-001