

Certificate of Compliance

Certificate: 2472435 Master Contract: 216311

Issued to: Extreme Telematics Corp.

2710 17th Ave SE, Suite 630 Calgary, AB T2A 0P6

Canada

Attention: James La Haye

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.



John Yam

Issued by: John Yam

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 C and D; Class I, Zone 0, Ex/AEx ia [ia] IIB:

ET-12001 Series of Plunger Lift Controller; Permanently mounted, Intrinsically safe and suitable for use in Class I, Division 1, Groups C and D, Zone 0, Groups IIB hazardous locations when installed in accordance with installation instructions ET-12001-1012-0000; Temperature Code T3; Ambient temperature range -40°C to +70°C. Battery powered by 6.0Vdc nom. (Intrinsically safe battery packs part numbers ET-12001-1008-0001 and ET-12001-1008-0002).

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Receives intrinsically safe inputs and outputs with the following entity parameters:

Solar Panel Input	RS485	COM1 / COM2	CP/DP, LP, PAS	CP/DP, LP, PAS
	(COM1 / COM2)		(PWR, COM)	(SIG, COM)
Vmax = 15.5Vdc	Vmax = 8.0Vdc	Voc = 8.0V	Voc = 8.0V	Voc = 8.0V
Imax = 160mA	Imax = 160mA	Isc = 108mA	Isc = 81.0mA	Isc = 0.80mA
$Ci = 0.1 \mu F$	$Ci = 0.0 \mu F$	$Ca = 10\mu F$	Ca = 10μF	$Ca = 10\mu F$
$Li = 0\mu H$	$Li = 0\mu H$	$La = 50\mu H$	La = 50μH	$La = 50 \mu H$
Pmax = 1.6W	Pmax = 0.8W	Pmax = 216mW	Pmax = 162mW	Pmax = 1.62mW

APPLICABLE REQUIREMENTS

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

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

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

in Hazardous Locations

CAN-CSA E60079-0: 02 - Electrical Apparatus for explosive gas atmospheres - Part 0-General Requirements.

CAN-CSA E60079-11: 02 - Electrical Apparatus for Explosive Gas Atmospheres - Part 11-Intrinsic Safety 'i'

UL 508 - 17th Ed - Industrial Control Equipment.

UL 913 - 7th Ed - Intrinsically Safe Apparatus and Associated Apparatus for Use in

Class I, II and III Division 1 Hazardous (Classified) Locations.

UL 60079-0 - 5th Ed - Electrical Apparatus for Explosive Gas Atmospheres - Part 0 - General Requirements.

UL 60079-11 - 5th Ed - Electrical Apparatus for Explosive Gas Atmospheres - Part 11 - Intrinsic Safety 'i'.

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MARKINGS

Divisions & Zones Model Series:

- Submittor's name, trademark, or the CSA file number (adjacent the CSA Mark).
- Catalogue / Model designation.
- Date code / Serial number traceable to month and year of manufacture.
- The CSA Mark with "c_us" indicators, as shown on the Certificate of Compliance; "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."
- The hazardous location designation "Class I, Division 1, Groups C and D; Class I, Zone 0"
- The symbol "Ex/AEx ia [ia]"
- The words "INTRINSICALLY SAFE" and "ASSOCIATED APPARATUS"
- The ambient temperature range "-40°C to +70°C"
- The Entity Parameters as applicable
- The designation of terminals (polarity, etc.)
- Reference to installation drawing (ET-12001-1012-0000)
- Reference to acceptable battery packs (ET-12001-1008-0001 and ET-12001-1008-0002)
- The following warning statement:
 - WARNING SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY
 - AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE (or equivalent)

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