



# Certificate of Compliance

<b>Certificate:</b>	2472435	<b>Master Contract:</b>	216311
<b>Project:</b>	80207772	<b>Date Issued:</b>	2025-07-14
<b>Issued to:</b>	<b>Extreme Telematics Corp.</b> Bay 14, 5925 - 12th St. SE Calgary, Alberta T2H 2M3 Canada	<b>Issued by:</b>	<i>Junlong Pan</i> Junlong Pan

**Attention:** Tyler Hopaluk

*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.*



## **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, T3**

**Ex ia [ia] IIB T3 Ga**

**Class I, Zone 0, AEx ia [ia] IIB T3**

ET-12001 Series of Plunger Lift Controller; Permanently mounted, Intrinsically safe when installed in accordance with installation instructions 10-00150; Ambient temperature range -40°C to +65°C; Type 4 enclosure; Battery powered by 6.0Vdc nom. (Intrinsically safe battery packs part numbers ET-12001-1008-0001 and ET-12001-1008-0002).

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



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Solar Panel Input P2	RS485 (COM1 / COM2) P8, P9		CP/DP, LP, PAS P5, P6, P7
Vmax = 15.5Vdc	Vmax = 8.0Vdc	Voc = 5.88V	Voc = 7.88V
I <sub>max</sub> = 160mA	I <sub>max</sub> = 160mA	I <sub>sc</sub> = 53.1mA	I <sub>sc</sub> = 92.1mA
C <sub>i</sub> = 0.1μF	C <sub>i</sub> = 0.0μF	C <sub>a</sub> = 10μF	C <sub>a</sub> = 10μF
L <sub>i</sub> = 0μH	L <sub>i</sub> = 0μH	L <sub>a</sub> = 50μH	L <sub>a</sub> = 50μH
P <sub>max</sub> = 1.6W	P <sub>max</sub> = 0.8W	P <sub>max</sub> = 105mW	P <sub>max</sub> = 181.5mW

**Conditions of Acceptability:**

- Equipment shall only be connected via Type 4 rated CSA Approved / UL Recognized cable gland for use in the type of hazardous location where the Plunger Lift Controller will be installed. The installation of the cable gland shall not impair the ingress integrity of the enclosure.
- The nonmetallic enclosure parts of this equipment may become a spark ignition hazard in the presence of static electricity. The enclosure shall be cleaned only with a damp cloth, and the equipment shall be mounted to avoid building static electric charge from nonconductive process flow, strong air currents, or other potential charging through friction.

**APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements

CAN/CSA C22.2 No. 60079-0:19 - Explosive atmospheres - Part 0: Equipment - General requirements

CAN/CSA-C22.2 No. 60079-11:14 (R2018) - Explosive Atmospheres - Part 11: Equipment protection by intrinsic safety "i"

ANSI/UL 61010-1 3rd Edition (2012), AMD1:2018 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

ANSI/UL 60079-0-2020 Seventh Edition - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements

ANSI/UL 60079-11-2018 Sixth Edition - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

CSA C22.2 No. 94.2:15 - Second Edition - Enclosures for electrical equipment, environmental considerations

UL 50E:2015 - Second Edition - UL Standard for Safety Enclosures for Electrical Equipment, Environmental Considerations



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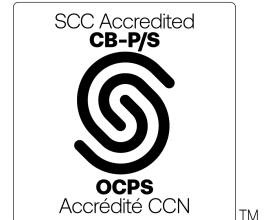
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Notes:

Products certified under Class(es) C225804, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## *Supplement to Certificate of Compliance*

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80207772	2025-07-14	Update to cCSAus Report 2472435 to include the addition of a new solar module and update of mainboard with a new supercapacitor, upgrade to the latest applicable requirements per certification notices Hazardous Locations Products No. 25A, 23.
80206873	2024-05-09	Update to cCSAus Report 2472435 for non-conformance issues non-conformity noted in FC# 226839, FIR dated June 20, 2022.
80136288	2022-10-04	Update to Report 2472435 to address non-conformity noted in (FC# 226839) FIR dated June 20, 2022.
80041394	2020-05-28	Update the report 2472435 to correct marking discrepancy noted in FIR March 11, 2020; Model ET-12001 Series.
70161291	2017-11-30	Update to Report 2472435 to fix the circuitry associated with ports "Field Out 2" and "Field Out 3" and use a new LDO regulator for U7; update the controller enclosure drawing to reflect the addition of 4 PEMS for more cost-effective mounting; and update Descriptive Documents, Product Variants table, and faceplate details in the report.
70009926	2014-12-18	Update report 2472435 to include alternate solenoid valve, manufacturer by GEMS, part #: BL3121-S3 and revise three, ET-12001-1010-0000, ET- 12001-1010-0101 and ET-12001-1010-0102, label drawings.
2594813	2013-02-04	Update to report 2472435 to include an alternate Noritake display CU16025ECPB-W6J which is already approved from report 1329773.
2472435	2011-11-09	Create new standalone report for the ET-12001 Model Series; copy test data from 2287921 original report.