



Certificate of Compliance

Certificate: 2472435

Master Contract: 216311

Project: 80041394

Date Issued: May 28, 2020

Issued To: Extreme Telematics Corp.
Bay 14, 5925 - 12th St. SE
Calgary, Alberta, T2H 2M3
Canada

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.

Issued by: Ravi Kanthe
Ravi Kanthe



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).

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



Certificate: 2472435

Project: 80041394

Master Contract: 216311

Date Issued: May 28, 2020

| Solar Panel Input | RS485 (COM1 / COM2) | COM1 / COM2 | CP/DP, LP, PAS (PWR, COM) | CP/DP, LP, PAS (SIG, COM) |
|--------------------------|--------------------------|--------------------------|------------------------------|------------------------------|
| Vmax = 15.5Vdc | Vmax = 8.0Vdc | Voc = 8.0V | Voc = 8.0V | Voc = 8.0V |
| I _{max} = 160mA | I _{max} = 160mA | I _{sc} = 108mA | I _{sc} = 81.0mA | I _{sc} = 0.80mA |
| C _i = 0.1μF | C _i = 0.0μF | C _a = 10μF | C _a = 10μF | C _a = 10μF |
| L _i = 0μH | L _i = 0μH | L _a = 50μH | L _a = 50μH | L _a = 50μH |
| P _{max} = 1.6W | P _{max} = 0.8W | P _{max} = 216mW | P _{max} = 162mW | P _{max} = 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' |

MARKINGS

Refer MARKINGS section of Descriptive Report and Test Results for details.



Supplement to Certificate of Compliance

Certificate: 2472435

Master Contract: 216311

*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 |
|----------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 to report 2472435 to include alternate solenoid GEMS BL3121-S3, add solar panel option (based on field certification) and add Division 2 and Zone 2 certification; includes the addition of 2 class numbers and 3 standards but assumes no testing is required since solenoid inductance is protected, report already approved with solar panel powering option and Div./Zone 2 cert is covered by IS evaluation. |
| 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. |