



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EMT 16.0024X Issue No: 0 Certificate history:
Issue No. 0 (2016-10-14)

Status: **Current** Page 1 of 3

Date of Issue: **2016-10-14**

Applicant: **Blackline GPS, Inc**
1215-13th Street S.E., Calgary, Alberta, T2G 3J4
Canada

Equipment: **Lone worker safety monitor - Loner M6i EU**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: Ex ib IIC T4 Gb -20°C ≤ Ta ≤ +55°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Stephen Winsor

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

Element Materials Technology
Unit 1 Pendle Place
Skelmersdale
West Lancashire
United Kingdom





IECEX Certificate of Conformity

Certificate No: IECEx EMT 16.0024X Issue No: 0
Date of Issue: 2016-10-14 Page 2 of 3
Manufacturer: **Blackline GPS, Inc.,**
#101, 1215-13th Street S.E.,
Calgary, Alberta, T2G 3J4
Canada

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/EMT/ExTR16.0023/00](#)

Quality Assessment Report:

[CA/CSA/QAR16.0006/00](#)



IECEx Certificate of Conformity

Certificate No: IECEx EMT 16.0024X

Issue No: 0

Date of Issue: 2016-10-14

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Loner ATEX is a lone worker safety monitoring device. The purpose of the instrument is to provide real-time monitoring of workers, and report information, such as location, and alerts to a centralized server.

It is a person worn device that communicates location, check-ins, and safety status and contains a two way voice over a cellular network. It consists of a single rechargeable, non-replaceable cell module, GSM antenna and electronic PCBs housed within a non-metallic enclosure.

The cell is recharged in a non-hazardous environment by connecting a custom charge clip to external contacts. The external contacts and charge clip are restricted to use in a non-hazardous area.

The charge clips four contacts mate to four external contacts on the bottom of the monitor and is held in place by the 'c' shaped clip. The other end of the charge clip accepts a USB connector.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Only charge the battery in the safe area.
2. For use with accessory Charge Clip, Model 102052 certified under IECEx EMT 16.0025X.

Annex:

[Annex to IECEx EMT 16.0024X is 0.pdf](#)



Element Materials Technology,
 Unit 1, Pendle Place,
 Skelmersdale,
 West Lancashire, WN8 9PN,
 United Kingdom

Annex to IECEx Certificate of Conformity

IECEx EMT 16.0024X issue No.: 0

Routine Tests
1. All samples of the vibration motor shall be tested to ensure an inductance of < 100uH.

Manufacturer's Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Main Unit Label	0155_SA_MD_M6i_ProductLabel-R7.ai	7	2016-09-28
Manual	101926	5	*
LonerATEX Main Assembly (4 sheets)	01220-A4269	R01B	2016-04-19
LonerATEX PCB Assembly Potting procedure (2 sheets)	01220-A7119	R01B	2016-01-11
Schematic, main board (10 sheets)	SCH_101368	09	2016-09-27
PCB specification, main board (3 sheets)	LATEX-03-xx PCB_101367	03	2016-04-28
BOM, main board	BOM_101368	09	2016-09-01
Schematic, PCM	SCH_L3PKE	07	2016-09-13
PCB Specification, PCM	L3PKE-06-xx	06	2016-09-13
BOM, PCM	BOM_L3PKE	07	2016-09-12
Schematic, speaker board	SCH_101865	02	2016-07-27
PCB specification, speaker board	LTXSPKR-02-xx	02	2016-07-27
BOM, speaker board	BOM_101865	02	2016-07-27
LATEX-03-xx gerber	PCB_101367	03	2016-04-27
LTXSPKR-02-xx gerber	PCB_101864	02	2016-07-27
L3PKE-06-xx gerber	PCB_PCM	06	2016-09-14
Belt Clip	00842-L117	R01A	2016-04-07