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 SIR 14.0003 issue No.:1	Certificate history: Issue No. 1 (2016-6-16) Issue No. 0 (2015-2-13)
Status:	**Current**	
Date of Issue:	**2016-06-16**	Page 1 of 4

Applicant:
Shockwatch Inc.
510 Corporate Drive
Graham
Texas 76450
United States of America

Equipment:
Optional accessory:
OpsWATCHEX

Type of Protection:
Intrinsically Safe

Marking:
Ex ib IIC T4 Gb
Ta = -40°C to +60°C

Approved for issue on behalf of the IECEx Certification Body: N Jones

Position: Certification Manager

Signature:
(for printed version)

Date: 2016-06-16

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:
SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

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Manufacturer: **Shockwatch Inc.**
510 Corporate Drive
Graham
Texas 76450
United States of America

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

*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/SIR/ExTR14.0259/00 GB/SIR/ExTR16.0153/00

Quality Assessment Report:

GB/SIR/QAR14.0017/00

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

The previous version of this certificate is withdrawn. The $OpsWatch_{EX}$ is a data logger for measuring shock, vibration and temperature. Data is transmitted via a WiFi RF Output that uses an integral antenna. The unit is powered from an external supply but also contains two, replaceable, AA, lithium cells that maintain basic functionality in case of temporary loss of supply, as well as a memory back-up capacitor. The electronics are encapsulated within an aluminium enclosure.
The $OpsWatch_{EX}$ has the following entity parameters at the supply port:

Ui = 28V Ii = 100mA Pi = 1.2W Ci = 0 Li = 0 Uo = 0

CONDITIONS OF CERTIFICATION: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 – this Issue introduced the following changes:

1 Change of equipment name from 'ShockLog CBMEx' to 'OpsWATCH$_{EX}$' resulting in a change of description.

2 Change of applicant and manufacturer that is named on the certificate from 'The IMC Group Ltd' in the UK to 'Shockwatch Inc.' in the USA.

3 Changes to the equipment circuitry and consequent changes to the p.c.b. assembly.

4 Use of a different type of antenna.

5 Changes to the detail shown on the certification label.

6 Withdrawal of the original circuit design and associated p.c.b. assembly.