



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 14ATEX2010** Issue: **1**

4 Equipment: **OpsWATCH_{Ex}**

5 Applicant: **Shockwatch Inc.**

6 Address: 510 Corporate Drive
Graham
Texas 76450
USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012 EN 60079-11:2012

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G
Ex ib IIC T4 Gb
Ta = -40°C to +60°C

Project Number 70049104

This certificate and its schedules may only be reproduced in its entirety and without change.



N Jones
Certification Manager

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The previous version of this certificate is withdrawn.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:

$U_i = 28V$ $I_i = 100mA$ $P_i = 1.2W$ $C_i = 0$ $L_i = 0$ $U_o = 0$

Variation 1 - This variation introduced the following changes:

- i. Change of equipment name from 'ShockLog CBME_{EX}' to 'OpsWATCH_{EX}' resulting in a change of description.
- ii. 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.
- iii. Changes to the equipment circuitry and consequent changes to the p.c.b. assembly.
- iv. Use of a different type of antenna.
- v. Changes to the detail shown on the certification label.
- vi. Withdrawal of the original circuit design and associated p.c.b. assembly.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	11 February 2015	R70004822A	The release of the prime certificate.
1	16 June 2016	R70049104A	This Issue covers the following changes: <ul style="list-style-type: none">• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)• The introduction of Variation 1.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

None

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16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 **CONDITIONS OF MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

Certificate Annexe



Certificate Number: Sira 14ATEX2010

Equipment: OpsWATCH_{EX}

Applicant: Shockwatch Inc.

Issue 0. The drawings listed with this Issue were rationalised and have been superseded by those detailed in Issue 1

Issue 1

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
CB5195	1 to 10	6	16 May 16	Circuit schematic
CB5195	1 to 13	6	16 May 16	P.C.B. artwork
Ex-PD4946	1 of 1	2	08 Jun 16	Certification marking
Ex-PD4999	1 to 3	6	08 Jun 16	General assembly
Ex-PD5283	1 of 1	1	24 Sep 14	Serial number marking
EX-PD5284	1 of 1	4	16 May 16	Critical component list
Ex-PD5473	1 of 1	2	16 May 16	PCB specification

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