

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 TSA 18.0002X

Issue No. 0

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Certificate history:

Status:

Current

Issue No. 0 (2018-03-29)

Date of Issue:

2018-03-29

500

Trolex Ltd

Applicant:

Newby Road Hazel Grove Stockport

Cheshire SK7 5DY United Kingdom

Equipment:

GasHawk TX7000 Handheld Portable Gas Monitor

Optional accessory:

Type of Protection:

Intrinsic safety "la"

Marking:

Ex ia I Ma or Ex ia da I Ma -20°C ≤ Ta ≤ +50°C

Approved for issue on behalf of the IECEx

Certification Body:

Ujen Singh

Position:

Signature:

(for printed version)

Date:

Quality and Certification Manager



29 MARCH 2018.

- 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:

TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia





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Manufacturer:

Trolex LtdNewby Road
Hazel Grove
Stockport
Cheshire SK7 5DY

United Kingdom

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 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/CML/ExTR16.0030/00

GB/CML/ExTR17.0055/00

GB/CML/ExTR17.0229/00

Quality Assessment Report:

GB/SIR/QAR07.0017/07



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The GasHawk TX7000 handheld portable gas monitor is designed to detect the presence of up to six gases simultaneously including oxygen, toxic and combustible gases and provide visual, audible and physical (vibrator) alarms if the set limits are exceeded. The equipment comprises an optional build-in pump for pre-enter testing in confined space and gas pocket monitoring.

The equipment is powered from an intrinsically safe battery pack interchangeable in the hazardous area, which comprises the Lithium Ion rechargeable battery and the battery PCB. The battery is charged in inductive (wireless) charging system based on Qi architecture.

The main unit comprises the Main MCU PCB, Sensor/Interface PCB and the LCD Interface PCB, all contained in a plastic (polycarbonate base and TPE overmold) enclosure providing a degree of protection of at least IP54 and with projected surface area less than 10,000 mm². Two buttons and liquid crystal display provide an interface to the end-user and the IrDA port is used for data communication.

The equipment uses separately certified sensors certified under certificates: IECEX ULD 14.0002U (IEC 60079-0:2011, IEC 60079-11:2011, IEC 60079-26:2006), IECEX ITS 11.0047U (IEC 60079-0:2011, IEC 60079-11:2011), IECEX FTZU 15.0002U (IEC 60079-0:2011, IEC 60079-1:2014-06, IEC 60079-11:2011) and IECEX SIR 04.0013X (IEC 60079-0:2011, IEC 60079-1:2014-06).

The GasHawk TX7000 is marked as GasHawk TX7000.xx.xx.xx.xx.xx.xx.xx, where xx details variants that allow alternate versions of the certified product.

When intrinsic safety sensors are fitted, marking code: Ex ia I Ma

Part Number: TX7000.06.xx.xx.xx.xx.xx.xx.xx

When flameproof sensors are fitted (CityTech 4P-75), marking code: Ex ia da I Ma

Part Number: TX7000.06.xx.xx.xx.01.xx.xx.xx
TX7000.06.xx.xx.xx.02.xx.xx.xx
TX7000.06.xx.xx.xx.03.xx.xx.xx

When Dynament MSH2ia-P sensors are fitted, marking code: Ex ia I Ma (This sensor was considered to comply with intrinsic safety only)
Part Number: TX7000.06.xx.xx.xx.07.xx.xx.xx

TX7000.06.xx.xx.xx.08.xx.xx.xx TX7000.06.xx.xx.xx.09.xx.xx.xx

The installation manual is provided in document no. P5593.1600 Replace the battery pack only with GasHawk Battery Pack TX7010.xx

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. The equipment must only be charged in a safe (non-hazardous) area.
- 2. When the flameproof sensors (CityTech 4P-75) are fitted, the equipment shall only be used in areas considered to be low risk of mechanical danger or additional precautions should be taken to reduce the risk of mechanical danger.

Annex:

Annexe for IECEx TSA 18.0002X-0.pdf



IECEx Certificate of Conformity Annexe

Annexe for Certificate No.: IECEx TSA 18.0002X Issue No.: 0

Drawing list pertaining to Issue 0 of this Certificate:

Drawing/Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
P5593.35.ATEX.IECEX	1	GasHawk Block Diagram ATEX/IECEx	А	2016-03-31
P5593.01.ATEX.IECEX	5	GasHawk MCU Board ATEX/IECEx Certification Schematic	А	2016-03-31
P5593.02.ATEX.IECEX	6	GasHawk MCU Board PCB Layout	А	2016-03-31
P5593.07.ATEX.IECEX	2	GasHawk Battery Pack PCB ATEX/IECEx Certification Schematic	А	2016-03-31
P5593.08.ATEX.IECEX	4	GasHawk Battery Pack PCB Layout	А	2016-03-31
P5593.10.ATEX.IECEX	5	GasHawk LCD Interface PCB ATEX/IECEx Certification Schematic	А	2016-03-31
P5593.11.ATEX.IECEX	3	GasHawk LCD Interface PCB Layout	А	2016-03-31
P5593.04.ATEX.IECEX	7	GasHawk Sensor/Interface PCB ATEX/IECEx Certification Schematic	В	2017-05-04
P5593.05.ATEX.IECEX	3	ATEX/IECEx Certification Drawing Sensor Interface PCB Layout	В	2017-05-09
P5593.31.ATEX.IECEX	1	MCU Board PCB, Final Assembly Certification	В	2017-05-05
P5593.32.ATEX.IECEX	1	Sensor Interface PCB, Final Assembly Certification	В	2017-05-05
P5593.33.ATEX.IECEX	1	LCD Interface PCB, Final Assembly Certification	В	2017-05-05
TX7000.ATEX.IECEX	1	GasHawk GA Certification	В	2017-05-05
TX7010.ATEX.IECEX	1	GasHawk Battery Pack Assembly Certification	В	2017-05-05
TX7000.IECEX	1	GasHawk GA Certification	С	2018-02-19
P5593-2017	1	Label, Battery Pack	Α	2018-02-19
P5593-2018	1	Label, Rear Case IECEx AUS, Group I, Standard, Certification	А	2018-02-19
P5593-2020	1	Label, Rear Case IECEx AUS, Group I, DY, Certification	А	2018-02-19
P5593-2022	1	Label, Rear Case IECEx AUS, Group I, CT, Certification	А	2018-02-19

Certificate issued by:



TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia