

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

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IECEx TSA 11.0047X

issue No.:2

Status:

Current

Certificate history: Issue No. 2 (2013-11-5) Issue No. 1 (2012-7-6) Issue No. 0 (2011-11-2)

Date of Issue:

2013-11-05

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Applicant:

Trolex Ltd

Newby Road, Hazel Grove Stockport, SK7 5DY **United Kingdom**

Electrical Apparatus:

TX6386 and TX6387 Methane Monitor

Optional accessory:

Type of Protection:

Marking:

Trolex

TX6386 / TX6387 Methane Monitor

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IECEX TSA 11.0047X S/N

Intrinsic Safety 'ia'

Approved for issue on behalf of the IECEx

Ujen Singh

Certification Body:

Position:

Quality and Certification Manager

Signature:

(for printed version)

Date:

HOVEMBER

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 Ltd

Newby Road, Hazel Grove Stockport, 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 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:

AU/TSA/ExTR10.0023/00

AU/TSA/ExTR12.0024/00

AU/TSA/ExTR13.0032/00

Quality Assessment Report:

GB/SIR/QAR07.0017/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Methane Monitor has two models:

- 1) TX6387: fixed model with large 100 mm display and remote sensing head.
- 2) TX6386: fixed model with 20 mm display and fixed/remote sensing head.

The TX6387 fixed model has a stainless steel enclosure with a glass window. A large LED display is on the front panel. At the bottom there are four M20 cable entries used by the supply cable and cable to the remote sensing head. The TX6386 has a plastic enclosure. An LED display is on the front panel. At the bottom there are two M20 cable entries used by the supply cable and connection to the fixed or remote sensing head.

The instrument is powered by an external intrinsically safe nominal 12 V power supply.

CONDITIONS OF	CERTIFICATION:	YES as	shown	below:
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Please refer to Annexe of the certficate.

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DETAILS OF CERTIFICATE	CHANGES (for issues 1	and above):
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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):					
Please refer to Annexe of the certficate.					

Annex: Annex for IECEx TSA 11.0047X-2.pdf



IECEx Certificate of Conformity Annexe

Annexe for Certificate No.: | IECEx TSA 11.0047X | Issue No.: | 2

Conditions of Certification pertaining to Issue 0 of this Certificate:

It is a condition of safe use that the following parameters shall be taken into account during installation:

Terminals T1, T2 (Powe	r)	T3, T4, T5, T6 (Relays)		
Maximum Input Voltage Ui	14.4 V	Maximum Input Voltage U _i	30 V	
Maximum Internal Capacitance C _i	0 μF	Maximum Internal Capacitance C _i	0 μF	
Maximum Internal Inductance L_i	0 mH	Maximum Internal Inductance L_i	0 mH	
		Maximum Output Voltage U _o	0 V	

Drawing list pertaining to Issue 0 of this Certificate:

Document No.	Sheets	Document Title	Issue	Date
P5559-12-01	1	STX3265.47 Methane Monitor Large Format Display General Arrangement	С	2010/11/04
P5559-12	1	STX3265 Methane Monitor General Arrangement	С	2010/11/03
P5559.01	1 of 2	P5559 Display Schematic Methane Monitor	A07	2011/10/19
P5559.01	2 of 2	P5559 Display BOM Methane Monitor	A07	2011/10/19
P5559.30	1	STX3265 Methane Monitor PCB, Display	A	2011/09/20
P5559.03	1 of 2	Methane Monitor P5559 Output Schematic	В	2011/09/20
P5559.03	2 of 2	Methane Monitor P5559 Output Board BOM	В	2011/09/20
P5559.04	1	STX3265 Methane Monitor PCB, Output	В	2009/05/29
P5559.05	1 of 2	P5559 Large Display Schematic Methane Monitor	A02	2009/05/29
P5559.05	2 of 2	P5559 Large Display BOM Methane Monitor	A02	2009/05/29
P5559.06	1	STX3265.47 Methane Monitor Large Display PCB, Display Large	В	2009/05/29
P5093.27	1	TX7000 Series Monitoring Modules Reed Relay	С	1997/01/21
P5559.28	1	Certification Label Details	В	2011/10/12

Variations permitted by Issue 1 of this certificate:

This apparatus was assessed in Test Report 31121 (AU/TSA/ExTR10.0023/00) to the earlier edition of the intrinsic safety standard. The client now requires compliance assessment to the standards IEC 60079-0:2011 and IEC 60079-11:2011. The client has also incorporated a diode change in the apparatus.

These changes were assessed in Test Report 33727 (AU/TSA/ExTR12.0024/00).

Certificate issued by:



TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia



IECEx Certificate of Conformity Annexe

Annexe for Certificate No.:

IECEx TSA 11.0047X

Issue No.:

Conditions of Certification pertaining to Issue 1 of this Certificate:

Conditions of Certification are unchanged from the Issue 0 of this certificate.

Drawing list pertaining to Issue 1 of this Certificate:

Document No.	Sheets	Document Title	Issue	Date (yyyy-mm-dd)
P5559.03	1 of 2	Methane Monitor P5559 Output Schematic	C	2012-03-19
P5559.03	2 of 2	Methane Monitor P5559 Output Board BOM	С	2012-03-19

Variations permitted by Issue 2 of this certificate:

To change the model number on the certificate and specific certified drawings from STX3265 / STX3265.47 to TX6386 / TX6387. The description of equipment was changed accordingly.

There are no changes on schematic and parts.

These changes were assessed in Test Report 34308 (AU/TSA/ExTR13.0032/00).

Conditions of Certification pertaining to Issue 2 of this Certificate:

Conditions of Certification are unchanged from the Issue 0 of this certificate.

Drawing list pertaining to Issue 2 of this Certificate:

Document	Sheets	Document Title	Issue	Date
No.				(yyyy-mm-dd)
P5559-12	1	TX6386 Methane Monitor General Arrangement	D	2012-08-28
P5559-12-01	1	TX6387 Methane Monitor Large Format Display	D	2012-08-28
		General Arrangement		
P5559.30	1	TX6386 & TX6387 Methane Monitor PCB, Display	В	2012-08-28
P5559.04	1	TX6386 & TX6387 Methane Monitor PCB, Output	C	2012-08-28
P5559.06	1	TX6387 Methane Monitor, Large Display	C	2012-08-28
		PCB, Display – Large		
P5559.28	11	Certification Label Details	C	2012-10-23

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