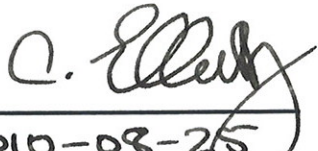




IECEx Certificate of Conformity

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 10.0018U	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2010-08-25	Page 1 of 4	
Applicant:	Trox Limited Hazel Grove Stockport Cheshire SK7 5DY United Kingdom		
Electrical Apparatus: Optional accessory:	TX6350 eModule - Flammable Gas Sensor (Group I)		
Type of Protection:	Intrinsic Safety		
Marking:	Ex ia I Ma (Ta = -20°C to + 40°C) IEC 60079-0:2007 Edition 5 (used for guidance in respect of marking)		
Approved for issue on behalf of the IECEx Certification Body:	C Ellaby		
Position:	Certification Officer		
Signature: (for printed version)			
Date:	<u>2010-08-25</u>		

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
Rake Lane
Ecclestone
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Manufacturer: **Trox Limited**
Hazel Grove
Stockport
Cheshire SK7 5DY
United Kingdom

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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 2006 Edition: 5	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/ExTR10.0180/00

Quality Assessment Report:

GB/SIR/QAR07.0017/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TX6350 eModule - Flammable Gas Sensor is an Ex Component designed to measure concentration of flammable gas by means of a pellistor type sensing head and to electronically convert the measured value into an output signal that can be monitored by suitably certified monitoring equipment, into which the sensor is plugged. The Flammable Gas Sensor contains a sub-assembly comprising a Sensing Board, Baseboard and a Connector Board. The sub-assembly fits inside a plastic enclosure with one face of the Connector Board exposed to connect with an external circuit.

Input Parameters at Connector CON 1			Output Parameters at Connector CON 1 Pins 3 to 6
Pin 1 wrt 2	Pin 3 & 4 combined wrt 2	Pins 5 wrt 2 and 6 wrt 2	
Ui = 14.4 V	Ui = 6.51 V Ii = 1.52 A Pi = 1.38 W	Ui = 6.51 V Ii = 27 mA Pi = 40 mW	Uo = 0 Ci = 8.64 μ F Li = 0

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

The Manufacturer shall comply with the following condition of manufacture:

1. The Flammable Sensor covered by this certificate incorporate a previously certified component, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.

Certificate no.	Manufacturer	Marking	Ambient temperature
Sira 02ATEX2059U	Trolex Ltd	EEx ia I	(Ta = -20°C to +40°C)

The User/Installer shall comply with the following special point for noting:

1. The Flammable Sensor has exposed external connections that shall be provided with an ingress protection of at least IP54.