



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 09.0026X** issue No.:1

Certificate history:
Issue No. 1 (2015-7-22)
Issue No. 0 (2009-12-22)

Status: **Current**

Date of Issue: **2015-07-22** Page 1 of 4

Applicant: **Trox Ltd**
Newby Road
Hazel Grove
Stockport
Cheshire SK7 5DY
United Kingdom

Electrical Apparatus: **RRTT Surface Communication Interface**
Optional accessory:

Type of Protection: **[Ex ia] I**

Marking: Trox Ltd
RRTT Surface Communication Interface
IECEX TSA 09.0026X
[Ex ia] I
Ta = -20 to +40 degC
Um = 250 Vrms
Ui = 9.1V, Ii = 30mA, Ci = Neg., Li = 25mH
Uo = 9.1V, Io = 45.4mA, Po = 0.11W,
Co = 90uF, Lo = 30mH
Serial No.

Approved for issue on behalf of the IECEx
Certification Body:

Ujen Singh

Position:

Quality & Certification Manager

Signature:
(for printed version)

Date:

22 JULY 2015

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](http://www.iecex.com).

Certificate issued by:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia





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Manufacturer: **Trolex Ltd**
Newby 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 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 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
Edition: 5

*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/ExTR08.0055/00

AU/TSA/ExTR08.0055/01

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 RRTT Surface Communication Interface is an associated apparatus installed in safe area. It provides a galvanically isolated transfer of data between a Local Interrogation Unit in hazardous area and a non-intrinsic safety device in the safe area.

CONDITIONS OF CERTIFICATION: YES as shown below:

Refer to Annex for Conditions of Certification



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

Change the applicant and manufacturer name from Golder Associates (UK) Ltd, Bretby Business park, Ashby Road, Burton on Trent, DE15 0QD, Staffordshire, United Kingdom to Trolex Ltd, Newby Road, Hazel Grove, Stockport, Cheshire SK7 5DY, United Kingdom.



IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 09.0026X	Issue No.:	1
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Drawing list pertaining to Issue 1 of this Certificate:

Drawing/Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
IMCL 1345.02.03	1	Remote Reading Tell-Tale System Surface communications interface, mechanical arrangement and I.S. label detail	A	2015-04

Conditions of Certification pertaining to Issue 1 of this Certificate:

Conditions of safe use

The following parameters shall be taken into account when connecting with external equipment:

Electrical Parameters	Non-IS terminals (2, 4)
Maximum Input Voltage U_m	250 Vrms
Electrical Parameters	IS terminals (5, 6)
Maximum Input Voltage U_i	9.1 V
Maximum Input Current I_i	30 mA
Maximum Internal Capacitance C_i	Negligible
Maximum Internal Inductance L_i	25 mH
Maximum Output Voltage U_o	9.1 V
Maximum Output Current I_o	45.4 mA
Maximum Output Power P_o	0.11 W
Maximum External Capacitance C_o	90 μ F
Maximum External Inductance L_o	30 mH

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