



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

Certificate No.: IECEx ExTC 18.0022X

Issue No: 0

Certificate history:

Issue No. 0 (2019-03-25)

Status: **Current**

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Date of Issue: **2019-03-25**

Applicant: **Trolex Nome Limited**  
Unit 10a Newby Road,  
Hazel Grove, Stockport, SK7 5DY  
**United Kingdom**

Equipment: **TX5001 RockMonitor XR Telltale**

*Optional accessory:*

Type of Protection: **Intrinsic Safety 'i'**

Marking: Ex ia I Ma

Tamb = -20°C to 50°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

David Price

*Position:*

Certification Authority

*Signature:  
(for printed version)*

*Date:*

2019-03-25

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:

**Ex Testing and Certification Pty Ltd**  
1/30 Kennington Drive  
Tomago NSW 2322  
Australia



TESTING & CERTIFICATION



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Manufacturer: **Trolex Limited**  
Unit 10a 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 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 : 2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**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/EXTC/ExTR18.0028/00](#)

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 TX5001 RockMonitor XR Telltale is installed in the roof or rib of an underground mine. It measures displacement of the strata at up to four anchor points and communicates the data back to the TX5002 RockMonitor XR Controller or a TX5003 RockMonitor XR Reader. Mechanical movement in the strata is converted to an electrical signal and visual indication. Visual indication of displacement is provided using a mechanical displacement scale.

The TX5001 RockMonitor XR Telltale may also optionally be configured for convergence pole applications for monitoring relative movement of the roof and floor.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annexe for further details

### Annex:

[IECEX ExTC 18.0022X-0 Annexe 2019-03-25.pdf](#)

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## Annexe



Annexe for Certificate No.:

IECEX ExTC 18.0022X

Issue No.:

0

### Description (Cont'd from certificate):

Refer to certificate

### Specific Conditions of Use pertaining to Issue 0 of this Certificate:

The equipment has the following parameters which shall be observed when connecting in an intrinsically safe circuit:

Supply and/or HART/FSK wrt 0 V	
Ui	17.64 V
Ci	Negligible
Li	0 $\mu$ H
Uo	9.5 V
Io	0 A
Co	1000 $\mu$ F
Lo	200 mH

The equipment is provided with one or two integral cables (each 3 core) with the following maximum capacitance (Cc) and inductance to resistance (Lc/Rc) ratio per cable:

Cc = 200 pF/m

Lc/Rc = 30  $\mu$ H/ $\Omega$

### Drawing list pertaining to Issue 0 of this Certificate:

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
TELLTALE MAIN PCB (Schematics - Various Titles)	P5625.01.IECEX	7	A	2018-09-18
TELLTALE MAIN PCB	P5625.02.IECEX	7	A	2018-09-28
Telltale Coil Interface Schematic	P5625.24.IECEX	1	A	2018-07-26
Coil Interface PCB	P5625.25.IECEX	1	A	2018-07-27
RockMonitor XR Telltale IECEX (Aus) certification label	P5625.2000	1	A	2019-02-25
Telltale General Arrangement	TX5001.IECEX	2	A	2019-03-05
Certification Information for User Manual	P5625.1800	4	A	2019-03-06