



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx ExTC 18.0022X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2019-03-25)

Status: **Current** Issue No: 1

Date of Issue: 2019-10-17

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:

Justin Gavranich

Position:

Certification Authority

Signature:
(for printed version)

Date:

2019-10-17

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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



TESTING & CERTIFICATION



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Issue No: 1

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

Additional
manufacturing
locations:

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 equipment 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 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 Reports:

[AU/EXTC/ExTR18.0028/00](#)

[AU/EXTC/ExTR19.0025/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0017/07](#)



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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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Refer to Annexe for further details

Annex:

[IECEx ExTC 18.0022X-1 Annexe Final.pdf](#)

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Annexe



Annexe for Certificate No.:

IECEX ExTC 18.0022X

Issue No.:

1

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 μ H
Uo	9.5 V
Io	0 A
Co	1000 μ 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 μ H/ Ω

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

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Annexe



Annexe for Certificate No.:

IECEX ExTC 18.0022X

Issue No.:

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Variations permitted by Issue 1 of this certificate:

Circuit modifications to change the input line common mode filter and include line filters for each of the four measurement coils.

Specific Conditions of Use pertaining to Issue 1 of this certificate:

There is no change to the Specific Conditions of Use from Issue 0 of this certificate.

Drawings Associated with the Issue 1 of this Certificate:

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
*TELLTALE MAIN PCB (Schematics - Various Titles)	P5625.01.IECEX	7	B	2019-10-14
*TELLTALE MAIN PCB	P5625.02.IECEX	7	B	2019-10-03
Telltale Coil Interface Schematic	P5625.24.IECEX	1	A	2018-07-26
*Coil Interface PCB	P5625.25.IECEX	1	B	2019-08-12
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

*Note: An * is included before the title of documents that are new or revised.*