



# 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 18.0030X

Issue No: 0

Certificate history:

Issue No. 0 (2019-03-27)

Status: **Current**

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Date of Issue: **2019-03-27**

Applicant: **Trolex Nome Limited**  
Unit 10a Newby Road  
Hazel Grove Stockport SK75DY  
**United Kingdom**

Equipment: **TX5002 RockMonitor XR Controller**

*Optional accessory:*

Type of Protection: **Intrinsic Safety**

Marking: Ex ia I Ma

-20°C ≤ Tamb ≤ +50°C

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


David Price

*Position:*

Certification Authority

*Signature:  
(for printed version)*

*Date:*

  
2019-03-27

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



# IECEX Certificate of Conformity

Certificate No: IECEX ExTC 18.0030X

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Manufacturer: **Trox 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/ExTR18.0038/00](#)

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 TX5002 RockMonitor XR Controller powers and receives signals from up to 300 TX5001 RockMonitor XR Telltale units connected, and provides communication to surface monitoring equipment using Ethernet and/or RS485 signals. It also contains two solid state relays that provide voltage free contacts. It provides user interface via keypad and LCD screen. It is powered from an associated equipment.

The electronics is contained in a painted steel box approx. 300 mm x 300 mm x 150 mm and provided with a set of terminals and connectors to facilitate external connections.

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

Refer to Annexe for details

### Annex:

[IECEX ExTC 18.0030X-0 Certificate Annex - Final.pdf](#)

# IECEX Certificate of Conformity



## Annexe



Annexe for Certificate No.:	IECEX ExTC 18.0030X	Issue No.:	0
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### Description:

Refer to certificate for equipment description.

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

The following parameters shall be observed when connecting to separately certified intrinsically safe equipment:

	Conn. P4 (Supply to TX5002)	Conn. P8 (Relay contacts – Relay A and Relay B)	Conn. P7 (RS485) - parameters for individual lines	Conn. J1 (Ethernet) – all lines combined	Conn. P5 (Telltale)
Terminal no.	1 wrt 2	4, 5, 6, 7, 8, 9	12, 13, 14, 15 wrt 11		16, 18 wrt 17
Ui	16 V or 14.4 V (as marked on the equipment)	30 V	8.4 V	17.64 V	17.64 V
Ii	2.37 A	0.32 A			
Pi		530 mW	3.15 W		
Ci	4 µF	0 µF	0 µF	0.48 µF	Negligible
Li	0 µH	0 µH	0 µH	0 µH	0 µH
Uo		0 V	5.88 V	0 V dc	17.64 V
Io		0 A	66 mA	0 A dc	2.03 A
Po			97 mW	0 W dc	4.16 W
Co			1000 µF	1000 µF	10.53 µF
Lo			26 mH	97 µH	83 µH
Lo/Ro				145 µH/Ω	48 µH/Ω

Refer below for example terminal number identification:



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## Annexe



Annexe for Certificate No.:

IECEX ExTC 18.0030X

Issue No.:

0

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

Manufacturer's Documents				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
MCU Schematic (Various Titles)	P5625.05.IECEX	6	A	2019-03-19
MCU PCB Layout	P5625.06.IECEX	9	A	2019-02-20
Telltale Driver Schematic (Various Titles)	P5625.09.IECEX	7	A	2019-03-19
Telltale Driver PCB Layout	P5625.10.IECEX	8	A	2019-02-20
Memory Module (Schematics) (Various Titles)	P5625.13.IECEX	3	A	2018-12-17
Memory Module PCB Layout	P5625.14.IECEX	7	A	2018-12-17
LCD Schematic (Various Titles)	P5625.17.IECEX	3	A	2018-12-17
LCD IECEX PCB Layout	P5625.18.IECEX	7	A	2019-02-27
Interface Schematic (Various Titles)	P5625.21.IECEX	6	B	2019-03-21
Controller Interface IECEX PCB Layout	P5625.22.IECEX	6	B	2019-03-19
RockMonitor XR Controller General Arrangement	TX5002.IECEX	1	A	2019-03-22
RockMonitor XR Controller IECEX (Aus) certification label, 14.4V	P5625.2015	1	A	2019-03-19
RockMonitor XR Controller IECEX (Aus) certification label, 16V	P5625.2017	1	A	2019-03-19
Certification Information for User Manual	P5625.1801	3	A	2019-03-19