

(1) EU-TYPE EXAMINATION CERTIFICATE



(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number

TÜV 19 ATEX 8458 X

Issue: 00

(4) Equipment: **TX5002 RockMonitor XR Controller**

(5) Manufacturer: **Trolex Limited**

(6) Address: **Unit 10a, Newby Road, Hazel Grove
Stockport, SK7 5DY
United Kingdom**

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex 8458.00/19

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0:2018

EN 60079-11:2012

EN 50303:2000

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:



I M1 Ex ia I Ma -20°C ≤ Tamb ≤ 50°C

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-02-12

Dipl.-Ing. Klauspeter Graffi

This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**
TÜV 19 ATEX 8458 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

TX5002 RockMonitor XR Controller

15.2 Description / Details of Change

General product information

The TX5002 RockMonitor XR Controller powers and receives signals from up to 300 TX5001 RockMonitor XR Teletale 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.

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Technical Data

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

	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	3.33 A	0.32 A			
Pi		530 mW			
Ci	4 µF	0 µF	0 µF	0.48 µF	Negligible
Li	0 µH	0 µH	0 µH	0 µH	30 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:



Ambient temperature:

Tamb -20°C ≤ to ≤ +50°C

(16) Test-Report No. 557/Ex 8458.00 / 19

(17) Special Conditions for safe use

The technical data shall be observed.

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(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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