

(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 8459 X

Issue: 00

- (4) Equipment: **TX5003 RockMonitor XR Reader**
- (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 8459.00/19

- (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 Graff

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 8459 X

Issue: 00

(15)

Description of equipment

15.1 Equipment and type:

TX5003 RockMonitor XR Reader

15.2 Description / Details of Change

General product information:

The TX5003 RockMonitor XR Reader is a battery powered device that powers and receives signals from up to 300 TX5001 RockMonitor XR Telltale units connected. The equipment provides a user interface via a keypad and LCD screen on the face of the enclosure.

The electronics and battery pack are housed in a painted steel enclosure with plastic end caps approximately 200mm x 120mm x 55mm and provides three cable connectors on the top cap for external connection. The TellTale connector is used for connection to the TX5001 RockMonitor XR Telltale units. The battery pack is integral to the equipment and is charged, in a safe area only, via the Charge connector on the top cap. The third cable connector is USB connector which can also only be used in a safe area for accessing data logged by the equipment.

The equipment is required to be used in the provided leather carry pouch which provides access to the Telltale connector and a clear viewing window on the front of the pouch.

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Technical Data

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

Telltale cable connector	
Uo	17.64 V
Io	2.03 A
Po	4.16 W
Co	10.64 µF
Lo	83 µH
Lo/Ro	48 µH/Ω
Ui	17.64 V
Ci	Negligible
Li	30 µH

Charge cable connector:
 Um = 26.66V

USB cable connector:
 Um = 8.1V

Ambient temperature:
 Tamb -20°C ≤ to ≤ +50°C

(16) Test-Report No. 557/Ex 8459.00 / 19

(17) Special Conditions for safe use

- (1) The Charge and USB connectors are only used when the equipment is in a non-hazardous area.
- (2) The TX5003 RockMonitor XR Reader shall only be used when in the leather pouch provided

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(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland-Zertifizierungsstelle für Explosionsschutz

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