

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - **Directive 94/9/EC**



(3) EC-Type Examination Certificate Number

**TÜV 04 ATEX 2644**

(4) Equipment: Single-Line Hand Held Laser Scanner type iSCAN 100

(5) Manufacturer: EXTRONICS LIMITED

(6) Address: Meridian House, Roe Street, Congleton, Cheshire CW12 1PG, UK

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

(8) The TÜV NORD CERT GmbH & Co. KG, TÜV CERT-Certification Body, notified body number N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system 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 atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report N° 04 YEX 551721 G.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014:1997+A1+A2 EN 50020:2002 EN 50281-1-1:1998+A1**

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

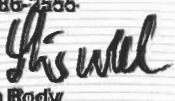
(11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

 II 2 G EEx ib IIC T4 resp. II 2 D T 70 °C

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30519 Hannover  
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Head of the  
Certification Body



Hannover, 2005-05-17

(13) **SCHEDULE**

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 04 ATEX 2644**

(15) Description of equipment

The Single-Line Hand Held Laser Scanner type iSCAN 100 serves for reading and processing barcodes in explosive areas that require apparatus of category 2 resp. 3.

The permissible ambient temperature range is -30 °C to +50 °C.

**Electrical Data:**

Supply

(D-Sub-connector)

in type of protection Intrinsic Safety EEx ib IIC only for the connection to certified intrinsically safe circuits

Maximum values:  $U_I = 5,45 \text{ V}$

$P_I = 1,3 \text{ W}$

The effective inner capacitance and inductance are negligibly small.

Data circuit

(D-Sub-connector)

in type of protection Intrinsic Safety EEx ib IIC

Maximum values:  $U_O = \pm 5,45 \text{ V}$

$I_O = 54 \text{ mA}$

Max. permissible outer capacitance:  $65 \mu\text{F}$

Max. permissible outer inductance :  $13 \text{ mH}$

(16) Test documents are listed in the test report N° 04 YEX 551721 G.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones