

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

Certificate No.: IECEx IBE 15.0024 Issue No: 0 Certificate history:
Status: **Current** Page 1 of 4 Issue No. 0 (2015-10-16)
Date of Issue: **2015-10-16**
Applicant: **Extronics Limited**
1 Dalton Way
Midpoint 18
Middlewich Cheshire
CW10 OHU
United Kingdom
Electrical Apparatus: **Bluetooth handheld scanner with bluetooth base charging station**
Optional accessory: *Type iSCAN2X1, iSCAN2X1PDF, iSCAN201 2D and iSCAN201EXB, iSCAN201EXB 2D*
Type of Protection: **Intrinsic Safety "I"**
Marking:
Ex ib IIB T4 Gb, Ex ib IIIC T135 °C Db,
Ex ib IIC T4 Gb

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

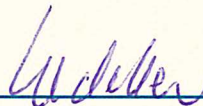
Prof. Dr. Tammo Redeker

Position:

Head of Certification Body

*Signature:
(for printed version)*

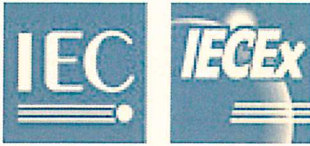
Date:


2015-10-16

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:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany



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Manufacturer: **Extronics Limited**
1 Dalton Way
Midpoint 18
Middlewich Cheshire
CW10 OHU
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 electrical 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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:

DE/IBE/ExTR15.0015/00

Quality Assessment Report:

GB/SIR/QAR08.0025/06



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Bluetooth hand scanner is used in hazardous areas of zone 1 and 2 or zone 21 and 22 as a hand-held unit. It is used to capture 1D codes (barcodes) and 2D codes (stacked-codes).

The handheld scanner is designed as a battery-powered handheld device and is powered by a lithium-ion rechargeable battery.

The data transfer is carried out via Bluetooth short-range radio to the Bluetooth base charging station standing in the non-hazardous area or to the standing in the hazardous area Bluetooth base station with charging function. Or at a hazardous or non-hazardous areas other stationary receiver with Bluetooth interface (eg. notebook or PC).

The Bluetooth base station can be supplied in a hazardous area with the supply unit iSCANPSX (2D) or a power supply unit with identical properties can be used.

The supply unit also assumes the conversion of non - Intrinsically Safe data signals (USB, RS232, RS422) in intrinsically safe data signals.

The rechargeable battery may be charged outside the hazardous area with a separate base charging station and power supply type iSCAN201BLP or in hazardous areas with the Bluetooth base station in connection with an intrinsically safe power supply.

Type distinction:

Bluetooth Hand Scanner:

Ex ib IIB T4, Ex ib IIIC T135°C iSCAN201, iSCAN201PDF
iSCAN211, iSCAN211PDF
iSCAN201 2D

Bluetooth Base Station with charging function:

Ex ib IIC T4; Ex ib IIIC T135°C iSCAN201EXB
iSCAN211EXB
iSCAN201EXB 2D

Ambient temperature. -20 °C to + 50 °C

Electrical data:

Bluetooth hand scanner iSCAN2x1, iSCAN2x1PDF, iSCAN201 2D



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Light Source visible red light: Popt. < 35 mW; wave length 630/1310 nm

Interface: Bluetooth V2.1/4.0 DER; Bluetooth class 2

2.4 - 2.4835 GHz; max. distance 30m

serial communication RS-232/422 /USB

Current consumption: 330 mA (standby 80/130 mA; peak 500 mA)

Battery type iSCAN201BATT 3.6 V; 2250 mAh

Bluetooth base station iSCAN2X1EXB, iSCAN201 2D

maximum input voltage	Ui	4.9 V
maximum input current	Ii	480 mA
maximum input power	Pi	1.25 W
maximum internal inductance	Li	negligible
maximum internal capacitance	Ci	112 µF

with connecting cable iSCANCAB7/CAB8

maximum input voltage	Ui	5.6 V
maximum input current	Ii	480 mA
maximum input power	Pi	1.25 W
maximum internal inductance	Li	negligible
maximum internal capacitance	Ci	46 µF

Accessories:

Separate charging boxes with power supply type iSCAN201BLP

Type: iSCAN201BNOBT, iSCAN201B for scanner iSCAN201

Type: iSCAN201BNOBT, iSCAN211B for scanner iSCAN201 PDF

Type: iSCAN201BNOBT, iSCAN201B 2D for scanner iSCAN201 2D

Um: 253 V AC Rated voltage: 5 V Rated current: 85 mA

CONDITIONS OF CERTIFICATION: NO