



# 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 CML 15.0085X

Issue No: 2

Certificate history:

Status: **Current**

Issue No. 2 (2017-11-21)

Issue No. 1 (2017-01-05)

Issue No. 0 (2016-09-27)

Date of Issue: 2017-11-21

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Applicant: **Extronics Ltd**  
1 Dalton Way  
Midpoint 18  
Middlewich  
Cheshire  
CW10 0HU  
United Kingdom

Equipment: **iRFID500 Tag Reader**

*Optional accessory:*

Type of Protection: **Intrinsic Safety**

Marking:  
Ex ia IIC T4 Ga and Ex ia I Ma  
Ex ia III C T135°C Da  
Ta = -20°C to +55°C

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

H M Amos MIET

*Position:*

Technical Manager

*Signature:  
(for printed version)*

*Date:*

November 21, 2017

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:

**Certification Management Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port  
CH65 4LZ  
United Kingdom





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Manufacturer: **Extronics Ltd**  
1 Dalton Way  
Midpoint 18  
Middlewich  
Cheshire  
CW10 0HU  
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:

[GB/CML/ExTR15.0087/00](#)

[GB/CML/ExTR17.0001/00](#)

[GB/CML/ExTR17.0206/00](#)

#### Quality Assessment Report:

[GB/SIR/QAR08.0025/07](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The iRFID500 is an intrinsically safe handheld device designed to read passive RFID (Radio Frequency Identification) tags.

**See Annex for full description**

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

**See Annex for Conditions of Certification**



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Issue 1

This issue introduces the following changes:

1. To allow minor changes to the iRFID500 drawings to include the modification below, correct typographical errors and clarification of drawing notes, references and assembly parts
2. To allow an alternative safety fuse to be utilised

### Issue 2

This issue introduces the following changes:

1. Addition of a Battery Monitoring circuit board
2. Removal of fuse from main circuit board
3. Removal of thermistor
4. Modifications to USB Charger Adapter

### Annex:

[IECEX CML 15.0085X Iss 2 Certificate Annex.pdf](#)

**Annexe to:** IECEx CML 15.0085X Issue 2  
**Applicant:** Extronics Ltd  
**Apparatus:** iRFID500 RFID Tag Reader



### **Product Description**

The iRFID500 is an intrinsically safe handheld device designed to read passive RFID (Radio Frequency Identification) tags.

It features an LCD display, indicating LEDs, sounder, vibrator, RF transceiver and a Bluetooth transceiver for communicating wirelessly with other electronic devices.

The electronic circuit board is housed in a plastic enclosure and is powered by an internal 3.7V rechargeable lithium ion battery. The unit is charged in the safe area via a USB socket in the base of the enclosure using the USB Charger Adapter model number iRFID500UC.

### **Conditions of Manufacture**

None

### **Conditions of Certification**

The following conditions relate to safe installation and/or use of the equipment.

- i. The USB socket must not be used in the hazardous area
- ii. Equipment must only be recharged with USB Charger Adapter model number iRFID500UC

