



26<sup>th</sup> September 2017

Dear Customer,

**Subject: Latest revision to Entel IECEX Certificate**

Please find attached the latest revision to Entel HT500 IECEX Certificate – IECEX SIR 10.0097X.

The latest revision of this certificate automatically supersedes any previous certificate issued.

Sincerely,

On behalf of Entel UK Ltd

A handwritten signature in blue ink, appearing to read 'Ruth', is placed below the text 'On behalf of Entel UK Ltd'.

Ruth Desmond  
Sales Operations Manager  
Entel UK Ltd.



# 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 SIR 10.0097X

Issue No: 3

Certificate history:

Status: **Current**

Page 1 of 4

Issue No. 3 (2017-09-18)

Issue No. 2 (2017-06-16)

Issue No. 1 (2015-06-10)

Issue No. 0 (2010-07-08)

Date of Issue: **2017-09-18**

Applicant: **Entel UK Limited**  
320 Centennial Avenue  
Centennial Park  
Elstree  
Borehamwood  
Herts WD6 3TJ  
**United Kingdom**

Equipment: **Handheld Radio Transceiver HT500**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:  
Ex ib IIA T4 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:  
(for printed version)

Date:

*C. Ellaby*  
**2017-09-18**

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:

**SIRA Certification Service**  
CSA Group  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside, CH5 3US  
United Kingdom

**sira**  
CERTIFICATION





# IECEx Certificate of Conformity

Certificate No: IECEx SIR 10.0097X

Issue No: 3

Date of Issue: 2017-09-18

Page 2 of 4

Manufacturer: **Entel UK Limited**  
320 Centennial Avenue  
Centennial Park  
Elstree  
Borehamwood  
Herts WD6 3TJ  
**United Kingdom**

Additional Manufacturing location(s):

**Entel HK Philippines**  
112 West Main Avenue  
Laguna Technopark Annex  
Barangay Binan  
Binan City  
Laguna 4024  
Philippines

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/SIR/ExTR10.0164/00  
GB/SIR/ExTR17.0190/00

GB/SIR/ExTR15.0160/00

GB/SIR/ExTR17.0125/00

### Quality Assessment Report:

GB/ITS/QAR09.0010/00



# IECEx Certificate of Conformity

Certificate No: IECEx SIR 10.0097X

Issue No: 3

Date of Issue: 2017-09-18

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The Handheld Radio Transceiver HT Series is comprised of a range of hand held battery powered portable two way radios. Each model has a plastic enclosure containing printed circuit boards and a keypad. Models not fitted with a liquid crystal display are indicated below in the listing of the model range. A transmit/receive antenna is mounted externally by a screw connection. The battery supply is contained in a separate pack which is attached to the main enclosure by plastic clips and secured by a locking screw. The battery supply comprises two rechargeable lithium ion cells connected in series. The battery pack maintains intrinsic safety when separated, permitting removal in a hazardous area. The battery pack shall not be recharged in a hazardous area. For the full range refer to the Annexe.

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

1. The equipment battery pack shall only be recharged with dedicated Entel battery re-charging equipment.
2. The equipment battery pack shall not be recharged in a hazardous atmosphere.
3. Refer to the certificate annexe for the permitted accessories.



# IECEx Certificate of Conformity

Certificate No: IECEx SIR 10.0097X

Issue No: 3

Date of Issue: 2017-09-18

Page 4 of 4

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

This issue recognises the following changes; refer to the certificate annex to view a comprehensive history:

- i. The two accessory model designations CXR5 and CXR16 recognised at Issue No. 1 were amended to correct a typographical error as follows, CXR5/950 and CXR16/950.
- ii. The PTT950E push to talk switch accessory was recognised for use with all models.
- iii. The accessory model PTT950E push to talk switch is added to the table of permitted accessories in the certificate annex. The models CXR16 and CXR5 are renamed CXR16/950 and CXR5/950. The revised table is shown in the annexe.
- iv. Drawing Ex-CNB950E V2-11 revision 3, listed in error at certificate Issue No. 2 is replaced with drawing Ex-CNB950E V2-11 revision 4.

## Annex:

[IECEx SIR 10.0097X\\_Issue 3.pdf](#)

**Annexe to:** IECEx SIR 10.0097X Issue 3  
**Applicant:** Entel UK Limited  
**Apparatus:** Handheld Radio Transceiver HT500



The new HT500 models within this range are as follows:-

**HT500 series model range:**

**UHF(400-520MHz)**

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| 3-key, no LCD  | HT582, HT582U, HT582S, HT582SU, HT582T, HT582TU, HT582R, HT582RU |
| 3-key, LCD     | HT583, HT583U, HT583S, HT583SU                                   |
| 8-key, LCD     | HT585, HT585U, HT585T, HT585TU, HT585R, HT585RU                  |
| 8-key+0-9, LCD | HT586, HT586U, HT586T, HT586TU, HT586R, HT586RU                  |

**VHFL(66-88MHz)**

|                |                               |
|----------------|-------------------------------|
| 3-key, no LCD  | HT512, HT512S, HT512T, HT512R |
| 3-key, LCD     | HT513, HT513S                 |
| 8-key, LCD     | HT515, HT515T, HT515R         |
| 8-key+0-9, LCD | HT516, HT516T, HT516R         |

**VHF(136-174MHz)**

|                |                               |
|----------------|-------------------------------|
| 3-key, no LCD  | HT522, HT522S, HT522T, HT522R |
|                | HT542                         |
| 3-key, LCD     | HT523, HT523S                 |
| 7-key, LCD     | HT544                         |
| 8-key, LCD     | HT525, HT525T, HT525R         |
| 8-key+0-9, LCD | HT526, HT526T, HT526R         |

An external multi-pin screw threaded connector is provided for earphone and microphone accessories. Only the specified types of accessories are permitted for use in hazardous areas.

The following accessories are permitted for use with all models:

| HT500 list of permitted accessories  |  |
|--------------------------------------|--|
| CMP500 speaker/microphone            |  |
| CHP950HD ear defender headset        |  |
| CHP950HS ear defender headset        |  |
| EA15/950 earphone/microphone         |  |
| EA19/950 earphone/microphone         |  |
| PTT950E push to talk switch          |  |
| PTT951 push to talk switch           |  |
| PTT951C push to talk switch          |  |
| PTT951E push to talk switch          |  |
| EHP950 earphone                      |  |
| CHP950D ear defender headset         |  |
| CXR16/950 throat earphone/microphone |  |
| CXR5/950 skull earphone/microphone   |  |
| EA12/950 earphone/microphone         |  |
| EHP9 earphone                        |  |
| EPT40 earphone/microphone            |  |

**Annexe to:** IECEx SIR 10.0097X Issue 3  
**Applicant:** Entel UK Limited  
**Apparatus:** Handheld Radio Transceiver HT500

---



Full certificate change history

**Issue 1** – this Issue introduced the following changes:

1. A revision of the battery pack circuits to form a new battery pack to replace the existing battery pack, marketed as type CNB550E V2, was approved.
2. The current limit from the battery has been increased from 2.0A to 2.14A by the active current limiting circuit.
3. An update to the permitted accessories list to bring it in line with the HT800 and HT900 certificate IECEx SIR 10.0035X, except for the CMP950 speaker microphone was included in the Annexe
4. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2004 Ed 4 and IEC 60079-11:2006 Ed 5 were replaced by IEC 60079-0:2011 Ed 6 and IEC 60079-11:2011 Ed 6.

**Issue 2** – this Issue introduced the following changes:

- 1 The introduction of an alternative battery pack cell type.
- 2 Modifications to the battery pack circuits.
- 3 Modifications to the battery pack labels.
- 4 The manufacturing site in the Philippines was recognised

**Issue 3** – this Issue introduced the following changes:

- 1 The two accessory model designations CXR5 and CXR16 recognised at Issue No. 1 were amended to correct a typographical error as follows, CXR5/950 and CXR16/950.
- 2 The PTT950E push to talk switch accessory was recognised for use with all models.
- 3 The accessory model PTT950E push to talk switch is added to the table of permitted accessories in the certificate annex. The models CXR16 and CXR5 are renamed CXR16/950 and CXR5/950. The revised table is shown above.
- 4 Drawing Ex-CNB950E V2-11 revision 3, listed in error at certificate Issue No. 2 is replaced with drawing Ex-CNB950E V2-11 revision 4.