26th 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

Ruth Desmond
Sales Operations Manager
Entel UK Ltd.

Entel UK Ltd
320 Centennial Avenue, Centennial Park,
Elstree, Herts, WD6 3TJ

+44 (0)20 8236 0032
sales@entel.co.uk
entel.co.uk

Reg no. 03143328
VAT no. GB 668-154-215

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 SIR 10.0097X	Issue No: 3

Status: **Current**

Page 1 of 4

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**
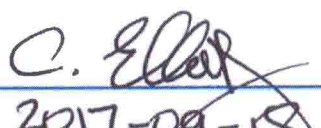
Marking:
Ex ib IIA T4 Gb

Approved for issue on behalf of the IECEx
Certification Body:

C Ellaby

Position:

Deputy Cerification Manager

Signature:
(for printed version)

Date:

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.

Certificate issued by:

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

IECEx Certificate
of Conformity

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
Edition:6.0
Explosive atmospheres - Part 0: General requirements

IEC 60079-11 : 2011
Edition:6.0
Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/ExTR15.0160/00	GB/SIR/ExTR17.0125/00
GB/SIR/ExTR17.0190/00		

Quality Assessment Report:

GB/ITS/QAR09.0010/00

IECEx Certificate
of Conformity

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

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

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.