

Annex 1 to SSAC Paper 2/2016

HKTA 1027  
ISSUE 2  
FEBRUARY 2003

**PERFORMANCE SPECIFICATION**  
**FOR PERSONAL HANDY PHONE SYSTEM (PHS)**  
**EQUIPMENT FOR PRIVATE USE**



TELECOMMUNICATIONS AUTHORITY  
HONG KONG

## **FOREWORD**

1. This specification is prescribed under section 32D of the Telecommunications Ordinance (Cap 106) (“the Ordinance”) to set out the technical and evaluation requirements for Personal Handy Phone System (PHS) equipment for private use in Hong Kong, as covered by the Telecommunications (Telecommunications Apparatus)(Exemption from Licensing) Order (“the Order”).
2. Under section 39 of the Ordinance, a person is exempted from the obligation to hold a licence under the Ordinance so long as the conditions set out in the Order are satisfied. Radiocommunications apparatus falling into the scope of this specification shall meet the requirements stipulated to fulfil the conditions of the Order.
3. At present, the Office of the Telecommunications Authority (OFTA) operates a **Hong Kong Telecommunications Equipment Evaluation and Certification (HKTEC) Scheme**. Details of the HKTEC Scheme can be found in the information note OFTA I 421. Under the Scheme, suppliers or manufacturers of the radiocommunications apparatus may apply to OFTA for certification of their apparatus against this specification. The application procedures for certification of radiocommunications apparatus can be found in the information note OFTA I 401. A prescribed label may be affixed to the equipment which has been certified by the Telecommunications Authority (TA). Details of the labelling arrangement can be found in the Standardisation Guide HKTA 3211.
4. In addition to this specification, radiocommunications apparatus capable of being used for connection as customer premises equipment (CPE) to the public telecommunications networks (PTNs) in Hong Kong should comply with the relevant network connection specification(s) issued by the TA. Manufacturers or suppliers may also apply for a separate certification by the TA to verify conformity of the apparatus with the relevant specification(s) before it is connected to the PTNs. Details concerning the application procedure for certification of CPE by the TA can be found in the information note OFTA I 412.
5. PHS equipment are required to operate on a “no-interference no-protection” basis, i.e. they may not cause radio interference and cannot claim protection from interference. Manufacturers or suppliers of such equipment are advised to consider the potentiality of interference due to the shared use of the frequencies.
6. The TA reserves the right to give separate certification to models he considers to be technical variants and the performance of which may differ between models.
7. The TA may amend any part of this specification as and when he deems necessary.
8. In case of doubt about the interpretation of this specification, the methods of carrying out the test and the validity of statements made by the equipment manufacturers or suppliers about the equipment, the decision of the TA shall be final.

9. The HKTA specifications and information notes are issued by the TA. The documents can be obtained through one of the following methods :-

- downloading direct through the OFTA's Internet Home Page. The Home Page address is <http://www.ofa.gov.hk>;
- making a request for hard copies to :-

Radio Laboratory, Standards Section  
Office of the Telecommunications Authority,  
29/F Wu Chung House,  
213 Queen's Road East, Wanchai, Hong Kong.

Fax : +852 2343 5824  
Email : radiolab@ofta.gov.hk

10. Enquiries about this specification may be directed to :-

Radio Laboratory, Standards Section,  
Office of the Telecommunications Authority,  
29/F Wu Chung House,  
213 Queen's Road East, Wanchai, Hong Kong.

Fax : +852 2343 5824  
Email: radiolab@ofta.gov.hk

## **AMENDMENT TABLE**

Item	Issue No.	Paragraph	Descriptions
1.	Issue 2	Foreword	Add information of HKTEC Scheme and other editorial changes
2.	Issue 2	Body	Add a new Clause 2 on "Electrical Safety Requirements" and include other editorial amendments.

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## **1. SCOPE OF SPECIFICATION**

This specification defines the minimum performance requirements for PHS equipment for private use in Hong Kong. The requirements apply to both portable unit and base unit of the apparatus.

## **2. ELECTRICAL SAFETY REQUIREMENTS**

The PHS equipment shall comply with the electrical safety requirements set out in HKTA 2001 "Compliance Test Specification Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications Networks in Hong Kong" issued by the Telecommunications Authority (TA).

## **3. TECHNICAL REQUIREMENTS**

- 3.1 PHS portable unit and base unit equipment for private use in Hong Kong shall meet the relevant parts specified in RCR STD-28 Version 2, Personal Handy Phone System, issued by the Association of Radio Industries and Businesses (ARIB), dated 26 December 1995.
- 3.2 The portable unit equipment approved under this specification shall also fulfill all the public standard/mandatory requirements for interconnection to the PHS public systems as stipulated under Chapter 3 on Technical Requirements for Radio Facilities and Chapter 4 on Communication Control Methods of the standard RCR STD-28 Version 2.
- 3.3 The control carriers for the private PHS portable unit and base unit equipment are the thirtieth carrier (1903.85 MHz) and the thirty-sixth carrier (1905.65 MHz).
- 3.4 The private base unit equipment shall operate only within the frequency band 1895 to 1906.1 MHz (carrier 1 to 37).

## **4. EVALUATION REQUIREMENTS**

Type-approval of PHS equipment shall be evaluated in accordance with the following procedures :-

1. All PHS portable unit and base unit equipment shall conform to MKK's Technical Standards Conformity Test.
2. All PHS portable unit equipment shall conform to the tests stipulated in the Technical Report RCR TR-23 Version 2 "Test Items and Conditions For Public Personal Station Compatibility Confirmation" issued by the ARIB, dated 26 December 1995.

3. A statement of compliance with all the relevant parts of RCR STD-28 Version 2 shall be made by the applicant.

## **5. HOW TO OBTAIN THE TECHNICAL INFORMATION**

The technical information issued by the ARIB may be obtained direct from:-

1. Association of Radio Industries and Businesses  
Bansui Building, 1-5-16, Toranomom,  
Minato-ku,  
Tokyo 105,  
Japan.  
  
Tel: +81-3-3592-1101  
Fax: +81-3-3592-1103
  
2. Radio Equipment Inspection and Certification Institute (MKK)  
5-7-2 Yashio, Shinagawa-ku,  
Tokyo 140, Japan  
  
Tel :+ 81-3-3799-0053  
Fax : + 81-3-3790-7152

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