

CST Technical Specification

Specification for APCO 25 Equipment

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This technical specification is issued by The Communications, Space and Technology Commission in the Kingdom of Saudi Arabia in accordance with the provisions of the Communications and Information Technology Act issued by Royal Decree No. (M/106) dated 02/11/1443 AH and its bylaw, and the Commission's regulation.

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Document History Table

Version	Issue Date	Description
Issue 1	March 2006	
Issue 2	January 2010	
Issue 3	July 2021	Merge of RI015 “Specification for APCO 25 Handsets and Ancillary Equipment” with RI016 “Specification for APCO 25 Base Stations and Ancillary Equipment” into one technical specification.
Issue 4	October 2023	

Table of contents

1- Scope.....	4
2- Enforcement	4
3- General Requirements.....	5
4- Limits and conditions.....	6
5- Licensing Requirements.....	6
6- Additional Requirements.....	6
7- References.....	7

1- Scope

- 1-1 This specification applies to APCO 25 handsets, base stations and ancillary equipment.
- 1-2 The APCO 25 suite of standards is defining a digital two-way radio communication system.

2- Enforcement

- 2-1 This specification shall enter into force from issue date.
- 2-2 Any previous version of this technical specification is withdrawn.

3 - General Requirements

- 3-1 All equipment must comply with the requirement of CST specification GEN001, be safe and must not adversely affect other electrical equipment.
- 3-2 All telecommunications and radio terminal equipment must comply with the relevant technical specifications established by CST. In addition, such equipment may be subject to regulations for Declaration of Conformity or registration. Please visit CST website for details.
- 3-3 If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.
- 3-4 Further information on the characteristics and presentation of network interfaces can be obtained by coordinating with the mobile network operators.
- 3-5 It is mandatory that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

4- Limits and conditions

Testing should be carried out to ensure compliance with the listed specifications.

Frequency band	Max Output Power or Magnetic Field	Usage	Standard	Comments
140 – 800 MHz	Subject to licensing	APCO 25	CFR 47 Part 90 CFR 47 Part 15 B ANSI C63.26	

5- Licensing Requirements

A spectrum license is required.

6- Additional Requirements

There is no additional requirements for this technical specification.

7- References

The following referenced documents are indispensable for the application of this document. If no issue or revision number is quoted along with the title of a technical specification or standard, the latest published version should be used.

CFR 47 Part 90

Private Land Mobile Radio Services

CFR 47 Part 15 B

Unintentional Radiators

ANSI C63.26

American National Standard for Compliance Testing of Transmitters
Used in Licensed Radio Services