



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

P.75

**TELEPHONE TRANSMISSION QUALITY
MEASUREMENTS RELATED TO SPEECH
LOUDNESS**

**STANDARD CONDITIONING METHOD FOR
HANDSETS WITH CARBON MICROPHONES**

ITU-T Recommendation P.75

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation P.75 was published in Volume V of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Recommendation P.75

STANDARD CONDITIONING METHOD FOR HANDSETS WITH CARBON MICROPHONES

(Geneva, 1972; amended at Malaga-Torremolinos, 1984, Melbourne, 1988)

1 Since the characteristics of carbon microphones are strongly dependent on conditioning techniques, it is necessary to follow a consistent procedure prior to measuring sensitivity/frequency characteristics in order to obtain reproducible results. The CCITT recommends that for best reproducibility, automatic mechanical conditioning be used. The following steps are specified for the *standard conditioning method*:

- a) Place the handset in a holding fixture with the handset clamped in a position corresponding to that in which the microphone is going to be measured [e.g. loudness rating guard-ring position (LRGP) according to Annex A of Recommendation P.76].
- b) Connect the microphone or telephone set terminals as required to the d.c. feed circuit and appropriate terminating loading.
- c) Turn the feed current on. After 5 seconds, condition the microphone by rotating it smoothly. Rotation is made such that the plane of the granule bed moves through an arc of at least 180°. The procedure is repeated twice with the handset coming to rest finally in the test position. The time of each rotation cycle should lie within the range of 2 to 12 seconds.

2 When carrying out subjective tests with a carbon microphone telephone set, the conditioning of the handset should be done by the talker. This conditioning should conform to the conditioning for objective measuring as described under § 1 above insofar as it is practicable.