

**TBR 8 Ed. 2  
 (Code 6721)**

**CAS TE Option**

Measurements according to ETSI standard TBR 8 / BAPT 223 ZV 10 (ISDN, handset terminals, Europe)

**The CAS option TBR 8 meets all requirements of the measurement regulation.**  
 The valid issue is dated October 1998 (The numbering relates to the corresponding section in the ETSI document TBR 8 (in brackets: BAPT ZV 10)).

**Measurements to TBR 8 / BAPT 223 ZV 10:**

- 8.2 (5.2) Speech performance characteristics (handset telephony 3.1 kHz)
  - 8.2.1 (5.2.1) Sensitivity - Frequency response of Transmission Constant
    - 8.2.1.1 (5.2.1.1) Sending
    - 8.2.1.2 (5.2.1.2) Receiving
  - 8.2.2 (5.2.2) Sending and Receiving Loudness Ratings (SLR and RLR)
    - 8.2.2.2 (5.2.2.2) Volume Control
  - 8.2.3 (5.2.3) Sidetone masking
    - 8.2.3.1 (5.2.3.1) Talker Sidetone
    - 8.2.3.2 (5.2.3.2) Listener Sidetone
  - 8.2.4 (5.2.4) Terminal Coupling Loss (TCL)
    - 8.2.4.1 (5.2.4.1) Weighted Terminal Coupling Loss (TCLw)
    - 8.2.4.2 (5.2.4.2) Stability loss
  - 8.2.5 (5.2.5) Distortion
    - 8.2.5.1 (5.2.5.1) Sending
      - 8.2.5.1.1 (5.2.5.1.1) Measuring with a noise signal
      - 8.2.5.1.2 (5.2.5.1.2) Measuring with a sinusoidal signal
    - 8.2.5.2 (5.2.5.2) Receiving
      - 8.2.5.2.1 (5.2.5.2.1) Measuring with a noise signal
      - 8.2.5.2.2 (5.2.5.2.2) Measuring with a sinusoidal signal
    - 8.2.5.3 (5.2.5.3) Sidetone Masking
  - 8.2.6 (5.2.6) Variation of gain with input level/Amplitude dependency
    - 8.2.6.1 (5.2.6.1) Sending
    - 8.2.6.2 (5.2.6.2) Receiving
  - 8.2.7 (5.2.7) Out-of-band Signals
    - 8.2.7.1 (5.2.7.1) Cancellation of Out-of-band Input Signals - Sending
    - 8.2.7.2 (5.2.7.2) Cancellation of Out-of-band Signals- Receiving
  - 8.2.8 (5.2.8) Noise
    - 8.2.8.1 (5.2.8.1) Sending
    - 8.2.8.2 (5.2.8.2) Receiving
    - 8.2.8.3 (5.2.8.3) Level of Sampling Frequency (Receiving)
  - 8.2.9 (5.2.9) Acoustic shock
    - 8.2.10 (5.2.10) Delay

**Additional tests to TBR 8 Edition 1**

- 10.2 (6) Audible Alerting Module
  - 10.2.1 (6.1) Sound Pressure Level

**Overview**

TBR 8 is an extension to CAS-TE versions (Communication Analysis System - Telecom) for automated measurements to ETSI standard TBR 8/BAPT Test Standard 223 ZV 10 (ETSI: European Telecommunications Standards Institute, TBR: Technical Basis for Regulation, BAPT: Bundesamt für Post und Telekommunikation, Germany).

TBR 8: Integrated Services Digital Network (ISDN), Telephony 3.1 kHz tele-service, Attachment requirements for handset terminals.

**SYSTEM PRE-REQUIREMENTS**

- **CAS TE 0/II/III (Code 6620/6650/6850/6900/6910/6920):**  
 Communication Analysis System - Telecom
- **MFE II (Code 6100):**  
 CAS Measurement Frontend with 2 digital in- and output channels incl. microphone and mouth pre-amplifier
- **MFE IV.1 (Code 6301):**  
 CAS Measurement Frontend for data acquisition at digital terminal equipment and transmission systems
- **HNG III.1 (Code 6510):**  
 Noise generator for diffuse sound field
- **Mouth and ear simulator (testhead)**

**STANDARD DELIVERY ITEMS**

- **TBR 8 (Code 6721):**  
 Option to CAS TE - Measurements to TBR 8 / BAPT ZV 10: measurement descriptors for automatic measurement to requirements

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