Federal Communications Commission

§ 68.317 Hearing aid compatibility volume control: technical standards.

(a) An analog telephone complies with the Commission’s volume control requirements if the telephone is equipped with a receive volume control that provides, through the receiver in the handset or headset of the telephone, 12 dB of gain minimum and up to 18 dB of gain maximum, when measured in terms of Receive Objective Loudness Rating (ROLR), as defined in paragraph 4.1.2 of ANSI/EIA–470–A–1987 (Telephone Instruments With Loop Signaling). The 12 dB of gain minimum must be achieved without significant clipping of the test signal. The telephone also shall comply with the limits on the range for ROLR given in paragraph 4.3.2.2 of ANSI/EIA/TIA–579–1991 when the receive volume control is set to its normal unamplified level.

(b) The ROLR of an analog telephone shall be determined over the frequency range from 300 to 3300 Hz using the method described in paragraph 4.3.2.1 of ANSI/EIA/TIA–579–1991. No variation in loop conditions is required for this measurement since the receive level of a digital telephone is independent of loop length.

(c) A digital telephone complies with the Commission’s volume control requirements if the telephone is equipped with a receive volume control that provides, through the receiver of the handset or headset of the telephone, 12 dB of gain minimum and up to 18 dB of gain maximum, when measured in terms of Receive Objective Loudness Rating (ROLR), as defined in paragraph 4.3.2 of ANSI/EIA/TIA–579–1991 (Acoustic-To-Digital and Digital-To-Acoustic Transmission Requirements for ISDN Terminals). The 12 dB of gain minimum must be achieved without significant clipping of the test signal. The telephone also shall comply with the limits on the range for ROLR given in paragraph 4.3.2.2 of ANSI/EIA/TIA–579–1991 when the receive volume control is set to its normal unamplified level.

(d) The ROLR of a digital telephone shall be determined over the frequency range from 300 to 3300 Hz using the method described in paragraph 4.3.2.1 of ANSI/EIA/TIA–579–1991. No variation in loop conditions is required for this measurement since the receive level of a digital telephone is independent of loop length.

(e) The ROLR for either an analog or digital telephone shall first be determined with the receive volume control at its normal unamplified level. The minimum volume control setting shall be used for this measurement unless the manufacturer identifies a different setting for the nominal volume level. The ROLR shall then be determined with the receive volume control at its maximum volume setting. Since ROLR is a loudness rating value expressed in dB of loss, more positive values of ROLR represent lower receive levels. Therefore, the ROLR value determined for the maximum volume control setting should be subtracted from that determined for the nominal volume control setting to determine compliance with the gain requirement.
§ 68.318 Additional limitations.

(a) General. Registered terminal equipment for connection to those services discussed below must incorporate the specified features.

(b) Registered terminal equipment with automatic dialing capability. (1) Automatic dialing to any individual number is limited to two successive attempts. Automatic dialing equipment which employ means for detecting both busy and reorder signals shall be permitted an additional 13 attempts if a busy or reorder signal is encountered on each attempt. The dialer shall be unable to re-attempt a call to the same number for at least 60 minutes following either the second or fifteenth successive attempt, whichever applies, unless the dialer is reactivated by either manual or external means. This rule does not apply to manually activated dialers that dial a number once following each activation.

Note to paragraph (b)(1): Emergency alarm dialers and dialers under external computer control are exempt from these requirements.

(2) If means are employed for detecting both busy and reorder signals, the automatic dialing equipment shall return to its on-hook state within 15 seconds after detection of a busy or reorder signal.

(3) If the called party does not answer, the automatic dialer shall return to the on-hook state within 60 seconds of completion of dialing.

(4) If the called party answers, and the calling equipment does not detect a compatible terminal equipment at the called end, then the automatic dialing equipment shall be limited to one additional call which is answered. The automatic dialing equipment shall comply with paragraphs (b)(1), (b)(2), and (b)(3) of this section for additional call attempts that are not answered.

(5) Sequential dialers shall dial only once to any individual number before proceeding to dial another number.

(c) Line seizure by automatic telephone dialing systems. Automatic telephone dialing systems which deliver a recorded message to the called party must release the called party’s telephone line within 5 seconds of the time notification is transmitted to the system that the called party has hung up, to allow the called party’s line to be used to make or receive other calls.

(1) 70 ms after receipt of dial tone at the network demarcation point; or

(ii) 600 ms after automatically going off-hook (for single line equipment that does not use dial tone detectors); or

(iii) 70 ms after receipt of CO ground start at the network demarcation point.

(d) Telephone facsimile machines; Identification of the sender of the message. It shall be unlawful for any person within the United States to use a computer or other electronic device to send any message via a telephone facsimile machine unless such person clearly