

American National Standard

*for Ophthalmics –
Ophthalmic Instruments –
Tonometers*



ANSI[®]
Z80.10-2009
Revision of
ANSI Z80.10-2003

American National Standard
for Ophthalmics –
Ophthalmic Instruments –
Tonometers

Secretariat
The Vision Council

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American National Standard

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The Accredited Committee Z80 for Ophthalmic Standards -

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Foreword (This foreword is not part of American National Standard ANSI Z80.10-2009.)

This American National Standard covers tonometers specifically intended for routine clinical use in the estimation of intraocular pressure *for the detection, diagnosis, and management of ocular abnormalities* and excludes uses such as monitoring induced high intraocular pressure for refractive surgery.

ANSI Z80.10-2009 was adapted by a group of experts within the ANSI Ophthalmic Instruments Subcommittee under the chair of William L. Brown, O.D., Ph.D. It is a performance standard.

This standard defines the tolerable range of intraocular pressure (IOP) readings in comparison to measurements made by a reference applanation tonometer such as the Goldmann Tonometer. Normative references have been updated. In Annex A, a section on specification and measurement of the flatness of the surface of the reference tonometer has been added. In Annex B, the exclusion criteria for subjects have been modified slightly and the number of eyes needed for the testing of a new tonometer have been modified.

Annexes A and B are normative and are considered part of the standard. Annex C is informative and is not considered part of the standard.

Suggestions for improvement of this standard will be welcome. They should be sent to the Vision Council, 1700 Diagonal Road, Suite 500, Alexandria, VA 22314.

This standard was processed and approved for submittal to ANSI by the Accredited Standards Committee on Ophthalmic Optics, Z80. Committee approval of this standard does not necessarily imply that all committee members voted for its approval. At the time of approval of this standard, the Z80 Committee consisted of the following members:

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