ISO 17123-7:2005 Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 7: Optical plumbing instruments

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Abbreviation
ISO 17123-7:2005
Valid from
01/03/2005

Information provider
International Organisation for Standardization
Author
International Organisation for Standardization
Information type
ISO Standard
Format
PDF

Cited By
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Description

ISO 17123-7:2005 specifies field procedures to be adopted when determining and evaluating the precision (repeatability) of optical plumbing instruments and their ancillary equipment, when used in building and surveying measurements. ISO 17123-7:2005 is not applicable to optical plummets as a device in tribrachs or in surveying instruments.

Primarily, these tests are intended to be field verifications of the suitability of a particular instrument for the immediate task at hand and to satisfy the requirements of other standards.

They are not proposed as tests for acceptance or performance evaluations that are more comprehensive in nature.

Scope

ISO 17123-7:2005 can be thought of as one of the first steps in the process of evaluating the uncertainty of a measurement (more specifically a measurand).

The uncertainty of a result of a measurement is dependent on a number of factors. These include among others: repeatability, reproducibility (between-day repeatability) and a thorough assessment of all possible error sources, as prescribed by the ISO Guide to the expression of uncertainty in measurement (GUM).

These field procedures have been developed specifically for in situ applications without the need for special ancillary equipment and are purposefully designed to minimize atmospheric influences and effects of imperfect adjustment of the optical plumbing instrument.

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