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## ISO 17123-2:2001 Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 2: Levels

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Abbreviation  
ISO 17123-2:2001  
Valid from  
01/12/2001

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Author  
International Organisation for Standardization  
Format  
PDF, Hard copy

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### Description

This part of ISO 17123 specifies field procedures to be adopted when determining and evaluating the precision of levels (spirit levels, compensator levels, digital levels) and their ancillary equipment when used in building and surveying measurements. 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.

This International Standard 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 purposely designed to minimize atmospheric influences.

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