

DIN 1319-2**DIN**

ICS 01.040.17; 17.020

Together with
DIN 1319-1:1995-01
supersedes
DIN 1319-2:1980-01**Basic concepts in metrology –
Part 2: Terminology related to measuring equipment**Grundlagen der Messtechnik –
Teil 2: Begriffe für Messmittel

Document comprises 13 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original should be consulted as the authoritative text.

Foreword

This series of standards has been jointly prepared by the *Normenausschuss Technische Grundlagen* (NATG) (Fundamental Technical Standards Committee), Section A “Units and unit symbols in physics and mathematics (AEF)” of DIN, in cooperation with the *VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik* (GMA) (VDI/VDE Society for Measurement and Automatic Control) and the *Deutsche Kommission Elektrotechnik Elektronik Informationstechnik im DIN und VDE* (DKE) (German Commission for Electrical, Electronic & Information Technologies of DIN and VDE).

DIN 1319 comprises the following parts:

- *Part 1: General concepts*
- *Part 2: Terminology related to measuring equipment*
- *Part 3: Evaluating measurements of a single measurand and expression of uncertainty*
- *Part 4: Evaluating measurements of more than one measurand and treatment of uncertainty*

The terms defined in this standard have been taken primarily from the following documents:

- DIN 1319-2:1980-01,
- the VDI/VDE 2600 series of guidelines (now withdrawn), and
- the International Vocabulary of Basic and General Terms in Metrology (VIM) [13].

The term *Messmittel* (measuring equipment) has not yet been standardized in the field of metrology. As this term is significant to quality management and is being increasingly used in practical metrology — a component of many quality assurance measures — the term has been standardized in the present document.

It should be noted that the German terms *Genauigkeit*, *Richtigkeit*, *Präzision* and *Wiederholpräzision* can be used to describe measurement results (see DIN 1319-1) as well as the metrological characteristics of measuring equipment (see 3.7 of this standard).*)

Terms marked with an asterisk (*) are defined in DIN 1319-1.

Amendments

This standard differs from DIN 1319-2:1980-01 as follows:

- a) It has been harmonized with DIN 1319-1:1995-01.
- b) The term “measuring equipment” and related terms are now defined.
- c) Terms relating to operating conditions are now defined.
- d) Terms relating to methods of measurement are now defined.
- e) Terms relating to scale design have been deleted.
- f) The standard has been fully revised.

*) Translator's note: This is not necessarily true for the English equivalents of these terms.

Previous editions

DIN 1319: 1942-07, 1962-01, 1963-12

DIN 1319-2: 1968-12, 1980-01

1 Scope

This standard defines metrological terms relating to measuring equipment and its use. These definitions are universally applicable, regardless of the quantity being measured, and supplement the more general terms defined in DIN 1319-1.

Terms relating to the processing of measurement signals within an instrument are not defined here as they are dealt with in standards on control technology (see DIN 19226-1 to DIN 19226-6) and telecommunications (see DIN 40146-1).

Likewise, terms which are only significant to legal metrology are not included here; see [14], for such terms in German.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

DIN 1319-1:1995-01, *Basic concepts in metrology – Part 1: General concepts*