

DIN EN 12966



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Supersedes
DIN EN 12966:2015-03
See start of application

**Road vertical signs –
Variable message traffic signs;
English version EN 12966:2014+A1:2018,
English translation of DIN EN 12966:2019-02**

Vertikale Verkehrszeichen –
Wechselverkehrszeichen;
Englische Fassung EN 12966:2014+A1:2018,
Englische Übersetzung von DIN EN 12966:2019-02

Signaux de signalisation routière verticale –
Panneaux à messages variable;
Version anglaise EN 12966:2014+A1:2018,
Traduction anglaise de DIN EN 12966:2019-02

Document comprises 123 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

Start of application

The start of application of this standard is 2019-02-01.

It should be noted that, in Germany, CE conformity marking of construction products will be permitted once this standard has been listed in the Official Journal of the European Union and/or the *Bundesanzeiger* (German Federal Gazette) and from the date given therein.

For further information, users of this standard should refer to the websites of the European Commission or of the relevant building authority.

The standard which this document replaces, DIN EN 12966:2015-03, may be used in parallel with this standard during a specified transition period where such has been laid down in the Official Journal of the European Union and/or the *Bundesanzeiger* (German Federal Gazette).

National foreword

This document (EN 12966:2014+A1:2018) has been prepared by Technical Committee CEN/TC 226 “Road equipment” (Secretariat: AFNOR, France).

The responsible German body involved in its preparation was *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering), Working Committee NA 005-10-28 AA “Variable message signs (national mirror committee for CEN/TC 226/WG 11)”.

Amendments

This standard differs from DIN EN 12966:2015-03 as follows:

- a) Annex ZA has been updated;
- b) the standard has been brought in line with current rules of presentation.

Previous editions

DIN EN 12966-1: 2005-07, 2010-03

DIN EN 12966-2: 2005-07

DIN EN 12966-3: 2005-07

DIN EN 12966: 2015-03

English Version

Road vertical signs - Variable message traffic signs

Signaux de signalisation routière verticale - Panneaux à messages variable

Vertikale Verkehrszeichen - Wechselverkehrszeichen

This European Standard was approved by CEN on 18 October 2014 and includes Amendment 1 approved by CEN on 10 October 2018.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European foreword

This document (EN 12966:2014+A1:2018) has been prepared by Technical Committee CEN/TC 226 “Road equipment”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2019 and conflicting national standards shall be withdrawn at the latest by September 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 7 November 2018.

This document will supersede A1 EN 12966:2014 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with Regulation (EU) No. 305/2011 [1], see informative Annex ZA, which is an integral part of this document.

EN 12966, *Road vertical sign – Variable message traffic signs*, covers the product standard, assessment and verification of constancy of performance (AVCP) including type testing and factory production control.

It derives from performance requirements and test methods published in CEN, CENELEC, CIE, IEC and ISO documents.

The main changes with respect to the previous edition are listed below:

- The new structure of the standard has been adapted to the structure proposed by CEN BT for harmonized standards
 - Consequently the contents of Clauses 4 to 8 of the previous edition have been moved to Clause 4, Product characteristics, in 4.1 to 4.6;
 - Contents of Clause 9 of the previous edition have been moved to Clause 5, Testing, assessment and sampling methods;
 - Contents of EN 12966-2:2005 and contents of EN 12966-3:2005 have been moved to Clause 6, Assessment and verification of constancy of performance (AVCP), and revised in accordance with requirements of CPR;
 - contents of Clause 10 of the previous edition have been moved to Clause 7, Classification and designation;
 - contents of Clause 11 of the previous edition have been moved to Clause 8, Marking, labelling and packaging;

- contents of Clause 12 of the previous edition are now included in Clause 6, Assessment and verification of constancy of performance (AVCP);
- contents of Clause 13 of the previous edition are now included in 4.6, Dangerous substances;
- informative Annex B of the previous edition has been renamed informative Annex L;
- informative Annex C of the previous edition has been renamed informative Annex M, information and guidance on graphics for discontinuous light emitting signs including figures has been added for better understanding;
- informative Annex D of the previous edition has been renamed informative Annex N, information and guidance on dimensions, luminance, beam width, legibility and efficiency for discontinuous VMS including figures has been added for better understanding;
- informative Annex E of the previous edition has been renamed informative Annex O;
- informative Annex F of the previous edition has been renamed informative Annex P ;
- new normative Annex B has been added to define declaration codes for marking;
- new informative Annex Q has been added to give guidance for technical documentation;
- new informative Annex R has been added showing templates for summary of test results;
- visual performance requirements of continuous VMS (4.3) and discontinuous VMS (4.4), have been updated, test methods have been simplified (5.5);
- physical performance requirements have been updated (4.5), test method have been adjusted accordingly (5.4);
- informative Annex ZA has been revised in accordance with requirements of the CPR.

NOTE The structure of the document follows the requirements requested by the CEN CPR Consultant at the time of drafting the document.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.