BS EN 12966:2014+A1:2018
Incorporating corrigendum June 2018

BSI Standards Publication

Road vertical signs - Variable message traffic signs

National foreword

This British Standard is the UK implementation of EN 12966:2014+A1:2018. It supersedes BS EN 12966:2014, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee B/509/11, Road equipment - Variable message signs.

A list of organizations represented on this committee can be obtained on request to its secretary.

The UK committee draws users' attention to National Annex NA, which describes the UK national regulations for all discontinuous variable message signs intended for use on UK public highways.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 December 2014.

Amendments/corrigenda issued since publication

Date	Text affected
30 June 2018	National Annex NA added
31 January 2019	Implementation of CEN amendment A1:2019

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12966:2014+A1

December 2018

ICS 93.080.30

Supersedes EN 12966:2014

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.

CEN members are the national standards bodies of 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 United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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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.