TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

CLC/TS 61400-14

September 2017

ICS 27.180

English Version

Wind turbines - Part 14: Declaration of apparent sound power level and tonality values (IEC/TS 61400-14:2005)

Éoliennes -
Partie 14: Déclaration des valeurs du niveau de puissance acoustique apparent et de la tonalité
(IEC/TS 61400-14:2005)

Windenergieanlagen -
Teil 14: Angabe von immissionsrelevanten Schallleistungspegel- und Tonhaltigkeitswerten
(IEC/TS 61400-14:2005)

This Technical Specification was approved by CENELEC on 2017-07-17.

CENELEC members are required to announce the existence of this TS in the same way as for an EN and to make the TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. CLC/TS 61400-14:2017 E

European foreword

This document (CLC/TS 61400-14:2017) consists of the text of IEC/TS 61400-14:2005 prepared by IEC/TC 88 "Wind energy generation systems".

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

Endorsement notice

The text of the International Standard IEC/TS 61400-14:2005 was approved by CENELEC as a Technical Specification without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 61400-11	2002	Wind turbine generator systems - Part 11: Acoustic noise measurement techniques	EN 61400-11	2003 [1)]
ISO 4871	1996	Acoustics - Declaration and verification of noise emission values of machinery and equipment	EN ISO 4871	2009
ISO 7574	series	Acoustics - Statistical methods for determining and verifying stated noise emission values of machinery and equipment	EN 27574	series

1) EN 61400-11:2003 is superseded by EN 61400-11:2013, which is based on IEC 61400-11:2012.

CONTENTS

INTRODUCTION

Information on the apparent sound power level and tonality of wind turbines is needed by planners, manufacturers and authorities. At present, wind turbine noise specifications tend to be based on measurement results from a single turbine of a particular make and model, and these are then taken to be representative of these turbines as a whole. Clearly, this is unlikely to be the case, as there will be individual variation between different turbines. The intention of this technical specification is to determine declared noise emission values from a sample of turbines of the same type. The declaration will increase the reliability of wind farm planning and facilitate the comparison of apparent sound power levels and tonality values of different types of wind turbines.