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de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 50463-2:2017

**Railway applications - Energy
measurement on board trains - Part 2:
Energy measuring**

Bahnanwendungen - Energiemessung
auf Bahnfahrzeugen - Teil 2:
Energiemessung

Applications ferroviaires - Mesure
d'énergie à bord des trains - Partie 2 :
Mesure d'énergie

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National Foreword

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**Railway applications - Energy measurement on board trains -
Part 2: Energy measuring**

Applications ferroviaires - Mesure d'énergie à bord des
trains - Partie 2 : Mesure d'énergie

Bahnwendungen - Energiemessung auf Bahnfahrzeugen
- Teil 2: Energiemessung

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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

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European foreword

This document (EN 50463-2:2017) has been prepared by CLC/TC 9X “Electrical and electronic applications for railways”.

The following dates are fixed:

- latest date by which this document has (dop) 2018-04-06
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publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2020-10-06
standards conflicting with this document
have to be withdrawn

This document supersedes EN 50463-2:2012.

EN 50463-2:2017 includes the following significant technical changes with respect to EN 50463-2:2012:

- updated requirements for events, quality codes, flags and logs (Clause 4);
- updated for consistency between Table 16 and Figure 6 regarding “Area 2” (Clause 4).

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

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

This document is Part 2 of the EN 50463 series which consists of the following parts, under the common title *Railway applications — Energy measurement on board trains*:

- *Part 1: General*;
- *Part 2: Energy measuring*;
- *Part 3: Data handling*;
- *Part 4: Communication*;
- *Part 5: Conformity assessment*.

This series of European Standards follows the functional guidelines description in EN ISO/IEC 17000:2004, Annex A “Principles of conformity assessment”, tailored to the Energy Measurement System (EMS).

The requirements for Energy Measurement Systems in the relevant Technical Specifications for Interoperability are supported by this series of European Standards.