

Nederlandse norm

NEN-EN 14116

(en)

Tanks for transport of dangerous goods - Digital interface for the product recognition device

Vervangt NEN-EN 14116:2003;
NEN-EN 14116:2003/A1:2005;
NEN-EN 14116:2006 Ontw.

ICS 13.300; 23.020.20; 35.240.60

april 2007

Als Nederlandse norm is aanvaard:
- EN 14116:2007, IDT

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Voorbeeld
Preview

English Version

Tanks for transport of dangerous goods - Digital interface for the product recognition device

Citernes destinées au transport de matières dangereuses -
Interface numérique du dispositif de reconnaissance de
produits

Tanks für die Beförderung gefährlicher Güter - Digitale
Schnittstelle für das Produkterkennungssystem

This European Standard was approved by CEN on 12 February 2007.

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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 Management Centre has the same status as the official versions.

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Foreword

This document (EN 14116:2007) has been prepared by Technical Committee CEN/TC 296 "Tanks for transport of dangerous goods", 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of an identical text or by endorsement, at the latest by October 2007, and conflicting national standards shall be withdrawn at the latest by October 2007.

This document supersedes EN 14116:2003.

This European Standard forms part of a coherent standards program comprising the following European Standards:

EN 13922, *Tanks for transport of dangerous goods — Service equipment for tanks — Overfill prevention systems for liquid fuels.*

EN 13616, *Overfill prevention devices for static tanks for liquid petroleum fuels.*

EN 15207, *Tanks for transport of dangerous goods — Plug/socket connection and supply characteristics for service equipment in hazardous areas with 24 V nominal supply voltage.*

EN 15208, *Tanks for transport of dangerous goods — Sealed parcel delivery systems — Working principles and interface specifications.*

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Introduction

Product recognition, the subject of this European Standard, is the digital interface that allows product data and/or other information to be transferred between transport tanks and other installations.

This European Standard has been extended by the possibility of bidirectional communication and defined messages were added.

Annex B gives more detailed information concerning patent rights for hose communication methods.

Copyright
Preview

1 Scope

This European Standard covers the digital interface at the product loading and/or discharge coupling which is used for the transfer of product related information and specifies the performance requirements, critical safety aspects and tests to provide compatibility of devices.

This European Standard specifies a digital interface which is suitable for use with liquid fuels.

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.

EN 50020, *Electrical apparatus for potentially explosive atmospheres — Intrinsic safety "i"*

EN 60079-0, *Electrical apparatus for explosive gas atmospheres — Part 0: General requirements (IEC 60079-0:2004)*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

OIML R 117, *Measuring systems for liquids other than water*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1

message

defined data set

3.1.2

telegram

frame that contains at least one standardized message

3.1.3

maximum input voltage (U_i)

according to EN 50020

3.1.4

maximum output voltage (U_0)

according to EN 50020

3.1.5

maximum input current (I_i)

according to EN 50020

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