

Vehicle parking control equipment - Pay and display ticket machine - Technical and functional requirements

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12414:2000 sisaldab Euroopa standardi EN 12414:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.02.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12414:2000 consists of the English text of the European standard EN 12414:1999.</p> <p>This document is endorsed on 18.02.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This standard specifies the technical and functional requirements for pay and display ticket machines. It applies to prepayment pay and display machines, operated by coins, tokens or electronic means, solely intended for simultaneous parking control of an unlimited number of road vehicles on or off-street and installed under public or private ownership.</p>	<p>Scope: This standard specifies the technical and functional requirements for pay and display ticket machines. It applies to prepayment pay and display machines, operated by coins, tokens or electronic means, solely intended for simultaneous parking control of an unlimited number of road vehicles on or off-street and installed under public or private ownership.</p>
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ICS 39.040.99

Võtmesõnad:

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English version

Vehicle parking control equipment
Pay and display ticket machines
Technical and functional requirements

Équipement de contrôle du
stationnement des véhicules –
Horodateurs – Exigences techniques
et fonctionnelles

Geräte zur Parküberwachung von
Fahrzeugen – Parkscheinautomaten –
Technische und funktionelle Anfor-
derungen

This European Standard was approved by CEN on 1999-08-08.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Foreword

This European Standard 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 March 2000, and conflicting national standards shall be withdrawn at the latest by March 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This standard has been defined with the aim of providing a product which offers all necessary and adequate guarantees:

- ease of use;
- security and safety;
- integration into the environment;

for those people called upon to use them : users - enforcement agents - operators and maintenance agents.

Pay and display ticket machines are either independent, associated to a local system or integrated into a centralised system.

Pay and display ticket machines are powered by an energy source:

- either by connection to an external source with or without buffer battery;
- or independently, with no connection to an external source.

1 Scope

This standard specifies the technical and functional requirements for pay and display ticket machines.

It applies to prepayment pay and display machines, operated by coins, tokens or electronic means, solely intended for simultaneous parking control of an unlimited number of road vehicles on or off-street and installed under public or private ownership.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 55022	Limits and methods of measurement of radio disturbance characteristics of information technology equipment (CISPR 22:1993)
EN 60068-2-1	Environmental testing - Part 2 : Tests - Tests A : Cold (IEC 60068-2-1:1990)
EN 60068-2-2	Basic environmental testing procedures - Part 2 : Tests - Tests B : Dry heat (IEC 60068-2-2:1974 + IEC 68-2-2A:1976)
EN 60529	Degrees of protection provided by enclosures (IP code) (IEC 60529:1989)

- EN 60742 Isolating transformers and safety isolating transformers - Requirements (IEC 60742:1983 + A1:1992, modified)
- EN 60898 Circuit-breakers for overcurrent protection for household and similar installations (IEC 60898:1987 + corrigendum may 1988 + A2:1989 + A3:1990 + corrigendum august 1990)
- EN 60950 Safety of information technology equipment, including electrical business equipment (IEC 60950:1991, modified)
- IEC 60068-2-30 Environmental testing - Part 2 : Tests - Test Db and guidance : Damp heat, cyclic (12 + 12 hour cycles)
- EN 61000-4-2 Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test - Basic EMC publication (IEC 61000-4-2:1995)
- EN 61000-4-3 Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:1995, modified)
- EN 61000-4-4 Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test - Basic EMV publication (IEC 61000-4-4:1995)

3 Definitions

For the purposes of this standard, the following definitions apply:

- 3.1 pay and display ticket machine:** Machine for prepayment of vehicle parking which, according to the amount paid, issues a proof of transaction (ticket) to the user and determines the authorized parking period.
- 3.2 cancellation of a transaction:** Operation used to interrupt the current transaction and leading to the return of the means of payment.
- 3.3 cash:** Any currently valid coins issued by an official banking system with a set monetary value.
- 3.4 cash-box:** Receptacle for permanent storage of coins and tokens, until collection.
- 3.5 confirmation of transaction:** Operation resulting in the issuing of a ticket.
- 3.6 electronic means of payment:** Any device containing an identifier guaranteeing its authenticity and capable of performing an electronic transaction.
- 3.7 escrow:** A unit to accumulate and hold the combined total of cash , before confirmation or cancellation of the transaction.
- 3.8 maximum parking period:** The longest period of time specified on an information medium which can be utilized as a parking period by the user category.
- 3.9 operational accuracy:** Deviation of authorized parking duration compared to the duration displayed.