

Numeric keyboard for home electronic systems (HES)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60948:2006 sisaldab Euroopa standardi EN 60948:1990 ingliskeelset teksti. Käesolev dokument on jõustatud 13.03.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 60948:2006 consists of the English text of the European standard EN 60948:1990. This document is endorsed on 13.03.2006 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: Applies to all kinds of equipment with numeric input used in homes. Specifies the layout of numerical keyboards with three rows of three keys each plus a fourth row with at least one key. Note: - For the price of this publication, please consult the ISO/IEC price-code list.	Scope: Applies to all kinds of equipment with numeric input used in homes. Specifies the layout of numerical keyboards with three rows of three keys each plus a fourth row with at least one key. Note: - For the price of this publication, please consult the ISO/IEC price-code list.
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ICS 33.160, 35.240.99, 97.120

Võtmesõnad:

UDC 621.398:64

Descriptors: Electronic equipment, household equipment, videotex,
control equipment, remote control, keyboard,
numerical character, key, layout

ENGLISH VERSION

NUMERIC KEYBOARD FOR HOME ELECTRONIC SYSTEMS (HES)
(IEC 948:1988)

Clavier numérique pour systèmes
électroniques domestiques (SED)
(CEI 948:1988)

Numerische Tastatur für
Heim-Elektronik-Systeme (HES)
(IEC 948:1988)

This European Standard was approved by CENELEC on 1990-06-11.
CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations
which stipulate the conditions for giving this European Standard the status of
a national standard without any alteration.

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

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 CENELEC member into its own language and notified to the Central Secretariat
has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium,
Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg,
Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 948:1988 could be accepted without textual changes, has shown that no CENELEC common modifications were necessary for the acceptance as European Standard. The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as EN 60948 on 11 June 1990.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1991-06-15
- latest date of withdrawal of
conflicting national standards (dow) 1991-06-15

For products which have complied with the relevant national standard before 1991-06-15, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1996-06-15.

ENDORSEMENT NOTICE

The text of the International Standard IEC 948:1988 was approved by CENELEC as a European Standard without any modification.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD

ITU publication:

Recommendation E. 161: Arrangement of figures, letters and symbols on rotary dials and pushbutton telephone sets. CCITT Redbook, Fascicle II.2 (1985).

ISO publications:

ISO Standard 1092 (1974): Adding machines and calculating machines - Numeric section of ten-key keyboards.

ISO Standard 3791 (1976): Office machines and data processing equipment - Keyboard layouts for numeric applications.

Related document:

ISO Standard 4169 (1979): Office machines - Keyboards - Key numbering system and layout charts.

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60948

Première édition
First edition
1988-06

**Clavier numérique pour systèmes électroniques
domestiques (SED)**

**Numeric keyboard for home electronic
systems (HES)**



Numéro de référence
Reference number
CEI/IEC 60948: 1988

Numéros des publications

Depuis le 1^{er} janvier 1997, les publications de la CEI sont numérotées à partir de 60 000.

Publications consolidées

Les versions consolidées de certaines publications de la CEI incorporant les amendements sont disponibles. Par exemple, les numéros d'édition 1.0, 1.1 et 1.2 indiquent respectivement la publication de base, la publication de base incorporant l'amendement 1, et la publication de base incorporant les amendements 1 et 2.

Validité de la présente publication

Le contenu technique des publications de la CEI est constamment revu par la CEI afin qu'il reflète l'état actuel de la technique.

Des renseignements relatifs à la date de reconfirmation de la publication sont disponibles dans le Catalogue de la CEI.

Les renseignements relatifs à des questions à l'étude et des travaux en cours entrepris par le comité technique qui a établi cette publication, ainsi que la liste des publications établies, se trouvent dans les documents ci-dessous:

- «Site web» de la CEI*
- **Catalogue des publications de la CEI**
Publié annuellement et mis à jour régulièrement (Catalogue en ligne)*
- **Bulletin de la CEI**
Disponible à la fois au «site web» de la CEI* et comme périodique imprimé

Terminologie, symboles graphiques et littéraux

En ce qui concerne la terminologie générale, le lecteur se reportera à la CEI 60 050: *Vocabulaire Electrotechnique International* (VEI).

Pour les symboles graphiques, les symboles littéraux et les signes d'usage général approuvés par la CEI, le lecteur consultera la CEI 60 027: *Symboles littéraux à utiliser en électrotechnique*, la CEI 60 417: *Symboles graphiques utilisables sur le matériel. Index, relevé et compilation des feuilles individuelles*, et la CEI 60 617: *Symboles graphiques pour schémas*.

* Voir adresse «site web» sur la page de titre.

Numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60 000 series.

Consolidated publications

Consolidated versions of some IEC publications including amendments are available. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

Validity of this publication

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology.

Information relating to the date of the reconfirmation of the publication is available in the IEC catalogue.

Information on the subjects under consideration and work in progress undertaken by the technical committee which has prepared this publication, as well as the list of publications issued, is to be found at the following IEC sources:

- **IEC web site***
- **Catalogue of IEC publications**
Published yearly with regular updates (On-line catalogue)*
- **IEC Bulletin**
Available both at the IEC web site* and as a printed periodical

Terminology, graphical and letter symbols

For general terminology, readers are referred to IEC 60 050: *International Electrotechnical Vocabulary* (IEV).

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to publications IEC 60 027: *Letter symbols to be used in electrical technology*, IEC 60 417: *Graphical symbols for use on equipment. Index, survey and compilation of the single sheets* and IEC 60 617: *Graphical symbols for diagrams*.

* See web site address on title page.

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

E

*Pour prix, voir catalogue en vigueur
For price, see current catalogue*

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

CLAVIER NUMERIQUE POUR SYSTEMES ELECTRONIQUES DOMESTIQUES

PREAMBULE

- 1) Les décisions ou accords officiels de la CEI en ce qui concerne les questions techniques, préparés par des Comités d'Etudes où sont représentés tous les Comités nationaux s'intéressant à ces questions, expriment dans la plus grande mesure possible un accord international sur les sujets examinés.
- 2) Ces décisions constituent des recommandations internationales et sont agréées comme telles par les Comités nationaux.
- 3) Dans le but d'encourager l'unification internationale, la CEI exprime le vœu que tous les Comités nationaux adoptent dans leurs règles nationales le texte de la recommandation de la CEI, dans la mesure où les conditions nationales le permettent. Toute divergence entre la recommandation de la CEI et la règle nationale correspondante doit, dans la mesure du possible, être indiquée en termes clairs dans cette dernière.

PREFACE

La présente norme a été établie par le Comité d'Etudes n° 83 de la CEI: Equipement pour les techniques relatives à l'information.

Le texte de cette norme est issu du document suivant:

Règle des Six Mois	Rapport de vote
83(BC)19	83(BC)20

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cette norme.

Les publications suivantes sont citées dans la présente norme:

Publication de l'UIT:

Recommandation E.161 : Disposition des chiffres, des lettres et des symboles sur les appareils à cadran et à clavier. Livre rouge du CCITT, fascicule II.2 (1985).

Publications de l'ISO:

Norme ISO 1092 (1974): Machines à additionner et machines à calculer - Partie numérique des claviers réduits.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

NUMERIC KEYBOARD FOR HOME ELECTRONIC SYSTEMS

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendation for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

PREFACE

This standard has been prepared by IEC Technical Committee N° 83: Information Technology Equipment.

The text of this standard is based on the following document:

Six Months' Rule	Report on Voting
83(CO)19	83(CO)20

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

The following publications are quoted in this standard:

ITU publication:

Recommendation E. 161: Arrangement of figures, letters and symbols on rotary dials and pushbutton telephone sets. CCITT Redbook, Fascicle II.2 (1985).

ISO publications:

ISO Standard 1092 (1974): Adding machines and calculating machines - Numeric section of ten-key keyboards.

Norme ISO 3791 (1976): Machines de bureau et machines employées en traitement de l'information - Disposition des claviers conçus pour des applications numériques.

Document de référence:

Norme ISO 4169 (1979): Machines de bureau - Claviers - Système de numérotation des touches et grilles de repérage.

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ISO Standard 3791 (1976): Office machines and data processing equipment - Keyboard layouts for numeric applications.

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