SLOVENSKI STANDARD
SIST EN ISO 11073-10417:2014

01-julij-2014

Nadomešča:

SIST EN ISO 11073-10417:2011

Zdravstvena informatika - Komunikacija osebnih medicinskih naprav - 10417. del: Specialne naprave - Glukometer (ISO 11073-10417:2014)

Health informatics - Personal health device communication - Part 10417: Device specialization - Glucose meter (ISO 11073-10417:2014)

Medizinische Informatik - Kommunikation von Geräten für die persönliche Gesundheit - Teil 10417: Gerätespezifikation: Blutzuckermessgerät (ISO 11073-10417:2014)

Informatique de santé - Communication entre dispositifs de santé personnels - Partie 10417: Spécialisation des dispositifs: Glucomètre (ISO 11073-10417:2014)

Ta slovenski standard je istoveten z: EN ISO 11073-10417:2014

ICS:

11.040.55	Diagnostična oprema	Diagnostic equipment
35.240.80	Uporabniške rešitve IT v zdravstveni tehniki	IT applications in health care technology

SIST EN ISO 11073-10417:2014   en,fr,de

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 11073-10417

March 2014

ICS 35.240.80

Supersedes EN ISO 11073-10417:2011

English Version

Health informatics - Personal health device communication - Part 10417: Device specialization - Glucose meter (ISO/IEEE 11073-10417:2014, Corrected version 2014-05-01)

Informatique de santé - Communication entre dispositifs médicaux sur le site des soins - Partie 10417: Spécialisation des dispositifs - Glucomètre (ISO/IEEE 11073-10417:2014, Version corrigée 2014-05-01)

Medizinische Informatik - Kommunikation von Geräten für die persönliche Gesundheit - Teil 10417: Gerätespezifikation: Blutzuckermessgerät (ISO/IEEE 11073-10417:2014, korrigierte Fassung 2014-05-01)

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EN ISO 11073-10417:2014 (E)

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Foreword

This document (EN ISO 11073-10417:2014) has been prepared by Technical Committee ISO/TC 215 "Health informatics" in collaboration with Technical Committee CEN/TC 251 "Health informatics" the secretariat of which is held by NEN.

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INTERNATIONAL
STANDARD

ISO/IEEE
11073-%\$(%+

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Health informatics — Personal health device communication —

Part 10417:
Device specialization: Glucose meter

Informatique de santé — Communication entre dispositifs de santé personnels
Partie 10417: Spécialisation des dispositifs: Glucomètre

Reference number
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ISO/IEEE 11073-10417:2013(E)

Foreword

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ISO/IEEE 11073-10417 was prepared by the Substations Committee of the IEEE Power Engineering Society of the IEEE (as IEEE 1686-2007). It was adopted by Technical Committee ISO/TC 215, *Respiratory and anaesthetic equipment*, in parallel with its approval by the ISO member bodies, under the "fast-track procedure" defined in the Partner Standards Development Organization cooperation agreement between ISO and IEEE. IEEE is responsible for the maintenance of this document with participation and input from ISO member bodies.

ISO/IEEE 11073 consists of the following parts, under the general title *Health informatics — Personal health device communication* (text in parentheses gives a variant of subtitle):

⎯ *Part 00103: Overview*

⎯ *Part 10101: (Point-of-care medical device communication) Nomenclature*

⎯ *Part 10102: (Point-of-care medical device communication) Nomenclature — Annotated ECG*

⎯ *Part 10103: (Point-of-care medical device communication) — Nomenclature — Implantable device, cardiac*

⎯ *Part 10201: (Point-of-care medical device communication) Domain information model*

⎯ *Part 10404: Device specialization — Pulse oximeter*

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— *Part 10406: Device specialization — Basic electrocardiograph (ECG) (1- to 3-lead ECG)*

— *Part 10407: Device specialization — Blood pressure monitor*

— *Part 10408: Device specialization — Thermometer*

— *Part 10415: Device specialization — Weighing scale*

— *Part 10417: Device specialization — Glucose meter*

— *Part 10418: Device specialization — International Normalized Ratio (INR) monitor*

— *Part 10420: Device specialization — Body composition analyzer*

— *Part 10421: Device specialization — Peak expiratory flow monitor (peak flow)*

— *Part 10441: Device specialization — Cardiovascular fitness and activity monitor*

— *Part 10471: Device specialization — Independant living activity hub*

— *Part 10472: Device specialization — Medication monitor*

— *Part 20101: (Point-of-care medical device communication) Application profiles — Base standard*

— *Part 20601: Application profile — Optimized exchange protocol*

— *Part 30200: (Point-of-care medical device communication) Transport profile — Cable connected*

— *Part 30300: (Point-of-care medical device communication) Transport profile — Infrared wireless*

— *Part 30400: (Point-of-care medical device communication) Interface profile — Cabled Ethernet*

— *Part 90101: (Point-of-care medical device communication) Analytical instruments — Point-of-care test*

— *Part 91064: (Standard communication protocol) Computer-assisted electrocardiography*

— *Part 92001: (Medical waveform format) — Encoding rules*

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Health Informatics—Personal health device communication

Part 10417: Device specialization—Glucose meter

IEEE Engineering in Medicine and Biology Society

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Health informatics—Personal health device communication

Part 10417: Device specialization—
Glucose meter

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Approved 7 December 2011

IEEE-SA Standards Board

Abstract: Within the context of the ISO/IE EE 11073 fa mily of standards fo r device communication, a normat ive definition of co mmunication between personal telehealth glucose meter devices and compute engines (e.g., cell ph ones, personal computers, personal health appliances, and set top boxes) is established by this standard in a manner that enables plug-and-play interoperability. Appropriate portions of existing standards are leveraged, including ISO/IEEE 11073 terminology, information models, application profile standards, and tra nsport standards. The use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base fram eworks in favor of interoperability ar e specified. A comm on core of communication functionality for personal telehealth glucose meters is defined in this standard.

Keywords: glucose meter, IEEE 11073-10417, medical device communication, personal health devices

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