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Health informatics - Point-of-care medical device communication - Part 10101: Nomenclature (ISO/IEEE 11073-10101:2004)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/18

Obsahuje: EN ISO 11073-10101:2005/A1:2017, ISO/IEEE 11073-10101:2004/Amd 1:2017

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English Version

**Health informatics - Point-of-care medical device  
communication - Part 10101: Nomenclature - Amendment  
1: Additional definitions (ISO/IEEE 11073-  
10101:2004/Amd 1:2017)**

Informatique de santé - Communication entre  
dispositifs médicaux sur le site des soins - Partie  
10101: Nomenclature - Amendement 1 (ISO/IEEE  
11073-10101:2004/Amd 1:2017)

Medizinische Informatik - Kommunikation  
patientennaher medizinischer Geräte - Teil 10101:  
Nomenklatur - Änderung 1 (ISO/IEEE 11073-  
10101:2004/Amd 1:2017)

This amendment A1 modifies the European Standard EN ISO 11073-10101:2005; it was approved by CEN on 13 April 2017.

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**EN ISO 11073-10101:2005/A1:2017 (E)**

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## **European foreword**

This document (EN ISO 11073-10101:2005/A1:2017) 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.

This Amendment to the European Standard EN ISO 11073-10101:2005 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.

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**INTERNATIONAL  
STANDARD**

**ISO/IEEE  
11073-10101**

First edition  
2004-12-15

**AMENDMENT 1**  
2017-10

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**Health informatics — Point-of-care medical  
device communication —**

**Part 10101:  
Nomenclature**

**AMENDMENT 1: Additional definitions**

*Informatique de santé — Communication entre dispositifs médicaux sur le  
site des soins —*

*Partie 10101: Nomenclature*

*AMENDEMENT 1: Définitions supplémentaires*



Reference number  
ISO/IEEE 11073-10101:2004/Amd 1:2017(E)



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**IEEE Std 11073-10101a™-2015**  
(Amendment to  
ISO/IEEE 11073-10101:2004)

**Health informatics—Point-of-care medical device communication**

## **Part 10101: Nomenclature**

### **Amendment 1: Additional Definitions**

Sponsor

**IEEE 11073™ Standards Committee**  
of the  
**IEEE Engineering in Medicine and Biology Society**

Approved 5 December 2015

**IEEE-SA Standards Board**

**ISO/IEEE 11073-10101:2004/Amd 1:2017(E)**

**Abstract:** Within the context of the ISO/IEEE 11073 family of standards for point-of-care (POC) medical device communication (MDC), the nomenclature defined by the base ISO/IEEE 11073-10101:2004 nomenclature standard is extended by this amendment. Significant extensions to support haemodynamics, respiration, ventilation and anesthesia monitoring, blood gas, urine, fluid-related metrics, and neurology, as well as units of measurements and measurement sites, are included. Formal definitions for observation identifiers used by the IEEE 11073 Personal Health Device standards and additional attributes for reporting their regulatory and certification status are also captured and provided. Information attributes to support alert communication and accurate medical device time synchronization and timekeeping are also defined.

**Keywords:** alert communication, anesthesia, blood gas, codes, Continua, fluid-related metrics, haemodynamics, IEEE 11073-10101a, IHE PCD, information model, ISO/IEEE 11073-10101, measurement sites, medical device certification, medical device communication, neurology, nomenclature, NTP, ontology, patient, PCHA, Personal Connected Health Alliance, POC, point-of-care, respiration, semantics, service model, terminology, time synchronization, timekeeping, units of measure, urine, ventilation

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## Introduction

This introduction is not part of IEEE Std 11073-10101a™-2015, Health informatics—Point-of-care medical device communication—Part 10101: Nomenclature—Amendment 1: Additional Definitions.

ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. They provide automatic and detailed electronic data capture of patient vital signs information and device operational data. The primary goals are to:

- Provide real-time plug-and-play interoperability for patient-connected medical devices
- Facilitate the efficient exchange of vital signs and medical device data, acquired at the point-of-care, in all health care environments

This amendment extends the nomenclature originally defined by the base IEEE Std 11073-10101:2004 nomenclature standard. It reflects the continued innovation in medical device and system design for the past decade and is based on a highly successful collaboration with the following organizations:

- Integrating the Healthcare Enterprise (IHE) Patient Care Devices (PCD) domain
- Personal Connected Health Alliance (PCHA, formerly Continua Health Alliance)
- ISO/TC 121, Anaesthetic and respiratory equipment, Subcommittee 4, Terminology and semantics

In addition, other vendors and standards development and profiling organizations have contributed to and have recognized the value of this work and the benefit it provides to the user and provider communities and to the patients that we ultimately serve.

This nomenclature amendment includes significant extensions to support:

- haemodynamics
- respiratory, ventilation and anesthesia monitoring
- blood gas, urine, fluid chemistry and other fluid-related metrics
- neurology
- units of measurements and measurement sites
- new medical device types, including infant warmers and incubators

This amendment also provides:

- formal definitions for observation identifiers used by IEEE 11073 Personal Health Devices
- attributes for reporting medical device regulatory and certification status
- attributes to support alert communication
- attributes to support accurate medical device time synchronization and timekeeping

**NOTES as used in this amendment** (preceding editorial instructions) are not meant to be included in the rollup or part of the editorial instructions. They are used solely to provide informative guidance and background to the reader as to why certain changes were made.

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Health informatics—Point-of-care medical device communication

## Part 10101: Nomenclature

### Amendment 1: Additional Definitions

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