



SLOVENSKI STANDARD
oSIST prEN ISO 11073-10421:2024
01-maj-2024

Zdravstvena informatika - Interoperabilnost naprav - 10421. del: Komunikacija osebnih medicinskih naprav - Specialne naprave - Merilnik vršne vrednosti izdihanega zraka (ISO/IEEE FDIS 11073-10421:2024)

Health informatics - Device interoperability - Part 10421: Personal Health Device Communication - Device Specialization- Peak expiratory flow monitor (peak flow) (ISO/IEEE FDIS 11073-10421:2024)

Medizinische Informatik - Interoperabilität von Geräten - Teil 10421: Kommunikation von Geräten für die persönliche Gesundheit - Gerätespezifikation - Monitor für den maximalen expiratorischen Atemfluss (peak flow) (ISO/IEEE FDIS 11073-10421:2024)

Informatique de santé - Interopérabilité des dispositifs - Partie 10421: Titre manque (ISO/IEEE FDIS 11073-10421:2024)

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Ta slovenski standard je istoveten z: prEN ISO 11073-10421

ICS:

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

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FINAL DRAFT International Standard

ISO/IEEE FDIS 11073-10421

Health informatics — Device interoperability —

Part 10421:

Personal Health Device Communication — Device Specialization- Peak expiratory flow monitor (peak flow)

ISO/TC 215

Secretariat: **ANSI**

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This second edition cancels and replaces the first edition (ISO/IEEE 11073-10421:2012), which has been technically revised.

The main changes are as follows:

- added support for Base-Offset-Time;
- defined new standard configuration 0x0835;
- updated normative references, to refer to ISO/IEEE 11703-20601;
- updated version of this device specialization;

ISO/IEEE 11073-10421:2024(en)

- updated the association details based on the new version;
- updated the wording in 6.3 regarding the Observational;
- updated the examples in 8.4.2 and Annex E to indicate the support of BaseOffsetTime;
- updated the qualifier in MDS and other objects to recommend BaseOffsetTime; also updated the description of the qualifiers in 6.5;
- added some text to 6.12 to further elaborate the DIM extensibility rule;
- corrected the use condition of GET MDS at E.4.1;
- updated the text in 8.5.2 regarding attribute-id-list, in order to be compliant with 20601-V4;
- added subclause 3.4 – Compliance with other standards;
- removed the year in the bibliography to represent the latest version;
- extended Table 1 to specify qualifier details for all possible configurations;
- made the IEEE std 11073-10101 as normative reference;
- updated the wording at 1.3 and 4.1 regarding the precedence of nomenclature between 10101, 20601, 104xx, and this standard;
- updated the usage of nomenclature-version. Tied it with the corresponding protocol-version.

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IEEE Std 11073-10421™-2023
(Revision of IEEE Std 11073-10421-2010)

Health Informatics—Device Interoperability

Part 10421: Personal Health Device Communication—Device Specialization—Peak Expiratory Flow Monitor (Peak Flow)

Developed by the

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

Approved 30 March 2023

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Abstract: Within the context of the ISO/IEEE 11073 family of standards for device communication, a normative definition of communication is established in this standard between personal telehealth peak expiratory flow monitor devices and compute engines (e.g., cell phones, personal computers, personal health appliances, and set-top boxes) 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 transport standards. The use of specific term codes, formats, and behaviors is specified in telehealth environments restricting optionality in base frameworks in favor of interoperability. A common core of communication functionality is defined for personal telehealth peak expiratory flow monitor devices.

Keywords: forced expiratory volume, IEEE 11073-10421™, medical device communication, peak expiratory flow, peak expiratory flow monitor, peak flow, personal health devices

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