

SLOVENSKI STANDARD
oSIST prEN ISO/IEEE 11073-10442:2026
01-september-2026

Zdravstvena informatika - Interoperabilnost naprav - 10442. del: Komunikacija osebnih medicinskih naprav, specialne naprave, fitnes oprema za trening moči (ISO/IEEE FDIS 11073-10442:2026)

Health informatics - Device interoperability - Part 10442: Personal health device communication, device specialization, strength fitness equipment (ISO/IEEE FDIS 11073-10442:2026)

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Ta slovenski standard je istoveten z: prEN ISO/IEEE 11073-10442

ICS:

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 11073-10442

Health informatics — Device interoperability —

Part 10442:
**Personal health device
communication, device
specialization, strength fitness
equipment**

ISO/TC 215

Secretariat: **ANSI**

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This second edition cancels and replaces the first edition (ISO/IEEE 11073-10442:2015), which has been technically revised.

The main changes are as follows:

- added support to Base-Offset-Time;
- updated normative references to refer to IEEE Std 11073-20601-2018;

ISO/IEEE 11073-10442:2026(en)

- updated the version of this device specialization;
- updated the association details based on new version;
- corrected the Type and Unit-Code in Table 5;
- removed the Unit-Code and Unit-labelstring from Enumeration objects;
- updated the wording in 6.3 regarding the Not Allowed and Observational;
- modified the binary examples, to be consistent with other 104xx specs;
- made IEEE Std 11073-10101 a 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;
- defined the continuous monitoring mode and set summary mode;
- defined the set-start-indicator.

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IEEE Std 11073-10442™-2023
(Revision of IEEE Std 11073-10442-2008)

Health Informatics—Device Interoperability

Part 10442: Personal Health Device Communication—Device Specialization— Strength Fitness Equipment

Developed by the

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

Approved 21 September 2023

IEEE SA Standards Board

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Abstract: Within the context of the ISO/IEEE 11073 family of standards for device communication, a normative definition of the communication between personal strength fitness devices and managers (e.g., cell phones, personal computers, personal health appliances, and set top boxes) in a manner that enables plug-and-play interoperability is established in this standard. Appropriate portions of existing standards including ISO/IEEE 11073 terminology and information models are leveraged. The use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability is specified. A common core of communication functionality for personal telehealth strength fitness devices is defined. In this context, strength fitness devices are being used broadly to cover strength fitness devices that measure musculo-skeletal strength-conditioning activities.

Keywords: IEEE 11073-10442™, medical device communication, personal health devices, strength fitness equipment

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