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**Health informatics — Device interoperability —**

**Part 10408:  
Personal health device communication  
— Device specialization —  
Thermometer**

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*Informatique de santé — Interopérabilité des dispositifs —*

*Partie 10408: Communication entre dispositifs de santé personnels —  
Spécialisation des dispositifs — Thermomètre*

ISO/IEEE FDIS 11073-10408

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**Health informatics—Personal health device communication**  
**Part 10408: Device specialization—**  
**Thermometer**

Developed by the

**IEEE 11073™ Standards Committee**

of the

**IEEE Engineering in Medicine and Biology Society**

Approved 7 November 2019

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**Abstract:** Within the context of the ISO/IEEE 11073 family of standards for device communication, this standard establishes a normative definition of communication between personal telehealth thermometer 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. It leverages appropriate portions of existing standards including ISO/IEEE 11073 terminology, information models, application profile standards, and transport standards. It specifies the use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability. This standard defines a common core of communication functionality for personal telehealth thermometer devices.

**Keywords:** IEEE 11073-10408™, medical device communication, personal health devices, thermometer

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## Introduction

This introduction is not part of IEEE Std 11073-10408-2019, Health informatics—Personal health device communication—Part 10408: Device specialization—Thermometer.

ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. This document uses the optimized framework created in IEEE Std 11073-20601<sup>a</sup> and describes a specific, interoperable communication approach for thermometers. These standards align with and draw on the existing clinically focused standards to provide support for communication of data from clinical or personal health devices.

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<sup>a</sup> Information on references can be found in Clause 2.

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