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**Health informatics — Personal health  
device communication —**

**Part 10419:**

**Device specialization — Insulin pump**

*Informatique de santé — Communication entre dispositifs de santé  
personnels —*

*Partie 10419: Spécialisation du dispositif — Pompe à insuline*

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This corrected version of ISO/IEEE 11073-10419:2016 incorporates the following corrections:

- corrected footers and formatting.

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 10101: (Point-of-care medical device communication) Nomenclature*
- *Part 10102: (Point-of-care medical device communication) Nomenclature: Annotated ECG*

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- *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*
- *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*
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- *Part 10420: Device specialization — Body composition analyzer*
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**Health informatics—Personal health device communication**

# **Part 10419: Device Specialization— Insulin Pump**

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**Abstract:** Within the context of the ISO/IEEE 11073 family of standards for device communication, a normative definition of communication between personal telehealth insulin pump devices and compute engines (e.g., cell phones, personal computers, personal health appliances, 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, information models, application profile standards, and transport standards are leveraged. The use of specific term codes, formats, and behaviors in telehealth environments restricting optionality in base frameworks in favor of interoperability are specified. A common core of communication functionality for personal telehealth insulin pump devices is defined.

**Keywords:** IEEE 11073-10419™, insulin pump, medical device communication, personal health devices

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## Introduction

This introduction is not part of IEEE Std 11073-10419-2015, Health informatics—Personal health device communication—Part 10419: Device Specialization—Insulin Pump.
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ISO/IEEE 11073 standards enable communication between medical devices and external computer systems. This document uses the optimized framework created in ISO/IEEE 11073-20601:2010<sup>1</sup> and describes a specific, interoperable communication approach for insulin pumps. 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>1</sup>For information on references, see Clause 2.

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