

DIN EN ISO/IEEE 11073-10419:2026-08 (E)

Erscheinungsdatum: 2026-07-24

Health informatics - Device interoperability - Part 10419: Personal health device communication, device specialization, insulin pump (ISO/IEEE FDIS 11073-10419:2026); English version prEN ISO/IEEE 11073-10419:2026

Contents

Page

1. Overview	13
1.1 Scope	13
1.2 Purpose	13
1.3 Word usage	14
1.4 Context	14
2. Normative references.....	14
3. Definitions, acronyms, and abbreviations.....	15
3.1 Definitions	15
3.2 Acronyms and abbreviations	16
4. Introduction to ISO/IEEE 11073 personal health devices	17
4.1 General	17
4.2 Introduction to ISO/IEEE 11073-20601 modeling constructs	18
4.3 Compliance with other standards.....	18
5. Insulin pump device concepts and modalities	19
5.1 General	19
5.2 Device types	20
5.3 Collected data	20
5.4 Stored data	26
5.5 Scheduled data	26
6. Insulin pump domain information model	26
6.1 Overview	26
6.2 Object instance diagram	27
6.3 Types of configuration.....	28
6.4 Profiles.....	29
6.5 Medical device system object	29
6.6 Numeric objects.....	32
6.7 Real-time sample array objects.....	53
6.8 Enumeration objects	53
6.9 PM-store objects	59
6.10 Schedule-store objects	64
6.11 Scanner objects	72
6.12 Class extension objects.....	73
6.13 Insulin pump information model extensibility rules	73
7. Insulin pump service model.....	73
7.1 General	73
7.2 Object access services.....	73
7.3 Object access event report services.....	75
8. Insulin pump communication model	75
8.1 Overview	75
8.2 Communications characteristics	76
8.3 Association procedure	76
8.4 Configuring procedure	78
8.5 Operating procedure	80
8.6 Time synchronization	80

9. Test associations	80
9.1 Behavior with standard configuration.....	81
9.2 Behavior with extended configurations	81
10. Conformance	81
10.1 Applicability	81
10.2 Conformance specification	81
10.3 Levels of conformance	82
10.4 Implementation conformance statements	82
Annex A (informative) Bibliography	91
Annex B (normative) Any additional ASN.1 definitions	92
Annex C (normative) Allocation of identifiers	93
C.1 General	89
C.2 Definitions of terms and codes.....	89
C.3 Systematic derivations of terms and codes	91
Annex D (informative) Message sequence examples	104
Annex E (informative) Protocol data unit examples	106
E.1 General	106
E.2 Association information exchange	106
E.3 Configuration information exchange.....	109
E.4 GET MDS attributes service	114
E.5 Data reporting.....	115
E.6 Disassociation	116
Annex F (informative) Revision History	117