

DIN EN ISO/IEEE 11073-10406:2026-08 (E)

Erscheinungsdatum: 2026-07-24

Health Informatics - Device Interoperability - Part 10406: Device specialization - Personal health device communication, device specialization, basic electrocardiograph (ECG) (1- to 3-lead ECG) (ISO/IEEE FDIS 11073-10406:2026); English version prEN ISO/IEEE 11073-10406:2026

Contents

Page

1. Overview	13
1.1 Scope	13
1.2 Purpose	13
1.3 Context	14
1.4 Word usage	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	16
4.1 General	16
4.2 Introduction to ISO/IEEE 11073-20601 modeling constructs	17
4.3 Compliance with other standards.....	17
5. Basic ECG (1- to 3-lead ECG) device concepts and modalities	18
5.1 General	18
5.2 ECG waveform	18
5.3 R-R interval	18
5.4 Heart rate	18
6. Basic ECG (1- to 3-lead ECG) domain information model	19
6.1 Overview	19
6.2 Class extensions	19
6.3 Object instance diagram	19
6.4 Types of configuration	20
6.5 Profiles	21
6.6 Medical device system object	23
6.7 Numeric objects	27
6.8 Real-time sample array objects	31
6.9 Enumeration objects	32
6.10 PM-store objects	35
6.11 Scanner objects	42
6.12 Class extension objects	44
6.13 Basic ECG (1- to 3-lead ECG) information model extensibility rules	45
7. Basic ECG (1- to 3-lead ECG) service model	45
7.1 General	45
7.2 Object access services	45
7.3 Object access event report services	48
8. Basic ECG (1- to 3-lead ECG) communication model	48
8.1 Overview	48
8.2 Communications characteristics	48
8.3 Association procedure	49
8.4 Configuring procedure	51
8.5 Operating procedure	52
8.6 Time synchronization	53
9. Test associations	53

9.1 Behavior with standard configuration.....	53
9.2 Behavior with extended configurations	53
10. Conformance	53
10.1 Applicability	53
10.2 Conformance specification	54
10.3 Levels of conformance	54
10.4 Implementation conformance statements (ICSs)	54
Annex A (informative) Bibliography	59
Annex B (normative) Any additional ASN.1 definitions	60
B.1 Bit mappings for device, lead, and signal status	60
Annex C (normative) Allocation of identifiers.....	61
Annex D (informative) Message sequence examples.....	62
Annex E (informative) Protocol data unit examples	64
E.1 General	64
E.2 Association information exchange	64
E.3 Configuration information exchange.....	67
E.4 GET MDS attributes service	70
E.5 Data reporting.....	72
E.6 Disassociation	72
Annex F (informative) Revision history	74