

DIN EN ISO/IEEE 11073-10407:2023-04 (E)

Health informatics - Device interoperability - Part 10407: Personal health device communication - Device specialization - Blood pressure monitor (ISO/IEEE 11073-10407:2022); English version EN ISO/IEEE 11073-10407:2022

Contents

	Page
1. Overview	12
1.1 Scope	12
1.2 Purpose	12
1.3 Word usage	12
1.4 Context	13
2. Normative references	13
3. Definitions, acronyms, and abbreviations	14
3.1 Definitions	14
3.2 Acronyms and abbreviations	15
4. Introduction to ISO/IEEE 11073 personal health devices	15
4.1 General	15
4.2 Introduction to IEEE 11073-20601 modeling constructs	16
4.3 Compliance with other standards	17
5. Blood pressure monitor device concepts and modalities	17
5.1 General	17
5.2 Systolic and diastolic pressure	18
5.3 Mean arterial pressure	18
5.4 Pulse rate	18
5.5 Blood pressure measurement status	18
6. Blood pressure monitor domain information model	18
6.1 Overview	18
6.2 Class extensions	18
6.3 Object instance diagram	18
6.4 Types of configuration	20
6.5 Medical device system object	20
6.6 Numeric objects	25
6.7 Real-time sample array objects	30
6.8 Enumeration objects	34
6.9 PM-store objects	35
6.10 Scanner objects	35
6.11 Class extension objects	36
6.12 Blood pressure monitor information model extensibility rules	36
7. Blood pressure monitor service model	36
7.1 General	36
7.2 Object access services	36
7.3 Object access event report services	38
8. Blood pressure monitor communication model	38
8.1 Overview	38
8.2 Communication characteristics	38
8.3 Association procedure	39
8.4 Configuring procedure	41
8.5 Operating procedure	43
8.6 Time synchronization	43

9. Test associations	44
9.1 General	44
9.2 Behavior with standard configuration	44
9.3 Behavior with extended configurations	44
10. Conformance	44
10.1 Applicability	44
10.2 Conformance specification	45
10.3 Levels of conformance	45
10.4 Implementation conformance statements	45
Annex A (informative) Bibliography	51
Annex B (normative) Additional ASN.1 definitions	52
B.1 Device and sensor status bit mapping	52
Annex C (normative) Allocation of identifiers.....	53
Annex D (informative) Message sequence examples.....	55
Annex E (informative) Protocol data unit examples	57
E.1 General	57
E.2 Association information exchange	57
E.3 Configuration information exchange.....	60
E.4 GET MDS attributes service	63
E.5 Data reporting.....	65
E.6 Disassociation	66
Annex F (informative) Revision history.....	67