

ISO/IEEE 11073-10407:2022-12 (E)

Health informatics - Device interoperability - Part 10407: Personal health device communication - Device specialization - Blood pressure monitor

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