ISO/IEEE 11073-10422:2017-10 (E)

Health informatics - Personal health device communication - Part 10422: Device specialization - Urine analyser

Contents

Page

1. Overview 12
   1.1 Scope 12
   1.2 Purpose 12
   1.3 Context 12

2. Normative references 13

3. Definitions, acronyms, and abbreviations 13
   3.1 Definitions 13
   3.2 Acronyms and abbreviations 14

4. Introduction to ISO/IEEE 11073 personal health devices 15
   4.1 General 15
   4.2 Introduction to IEEE 11073-20601 modeling constructs 15
   4.3 Compliance with other standards 16

5. Urine analyzer device concepts and modalities 16
   5.1 General 16
   5.2 Bilirubin 16
   5.3 Blood 16
   5.4 Glucose 16
   5.5 Ketones 17
   5.6 Leukocyte esterase 17
   5.7 Nitrite 17
   5.8 pH 17
   5.9 Protein 17
   5.10 Specific gravity 17
   5.11 Urobilinogen 17

6. Urine analyzer domain information model 17
   6.1 Overview 17
   6.2 Class extensions 18
   6.3 Object instance diagram 18
   6.4 Types of configuration 18
   6.5 Medical device system object 19
   6.6 Numeric objects 23
   6.7 Real-time sample array objects 33
   6.8 Enumeration objects 33
   6.9 PM-store objects 34
   6.10 Scanner objects 34
   6.11 Class extension objects 34
   6.12 Urine analyzer information model extensibility rules 34

7. Urine analyzer service model 34
   7.1 General 34
   7.2 Object access services 34
   7.3 Object access event report services 36

8. Urine analyzer communication model 36
   8.1 Overview 36
   8.2 Communication characteristics 36
   8.3 Association procedure 37
   8.4 Configuring procedure 38

8.5 Operating procedure 38
8.6 Time synchronization 39

9. Test associations 39

10. Conformance 39
10.1 Applicability 39
10.2 Conformance specification 39
10.3 Levels of conformance 39
10.4 Implementation conformance statements 40

Annex A (informative) Bibliography 44

Annex B (normative) Any additional ASN.1 definitions 45

Annex C (normative) Allocation of identifiers 46

Annex D (informative) Message sequence examples 48

Annex E (informative) Protocol data unit examples 50