DIN EN ISO 11073-10415:2011-07 (E)

Health informatics - Personal health device communication - Part 10415: Device specialization - Weighing scale (ISO/IEEE 11073-10415:2010); English version EN ISO 11073-10415:2011

Contents

Page

Foreword 4

Introduction 5

1. Overview 6

1.1 Scope 6
1.2 Purpose 6
1.3 Context 7

2. Normative references 7

3. Definitions, acronyms, and abbreviations 7

3.1 Definitions 7
3.2 Acronyms and abbreviations 8

4. Introduction to ISO/IEEE 11073 personal health devices 8

4.1 General 8
4.2 Introduction to IEEE 11073-20601 modeling constructs 9

5. Weighing scale device concepts and modalities 9

5.1 General 9
5.2 Body weight 10
5.3 Body height 10
5.4 Body mass index 10

6. Weighing scale domain information model 10

6.1 Overview 10
6.2 Class extensions 10
6.3 Object instance diagram 11
6.4 Types of configuration 12
6.5 Medical device system object 13
6.6 Numeric objects 16
6.7 Real-time sample array objects 20
6.8 Enumeration objects 20
6.9 PM-store objects 20
6.10 Scanner objects 20
6.11 Class extension objects 20
6.12 Weighing scale information model extensibility rules 20

7. Weighing scale service model 20

7.1 General 20
7.2 Object access services 20
7.3 Object access event report services 22

8. Weighing scale communication model 22

8.1 Overview 22
8.2 Communications characteristics 22
8.3 Association procedure 23
8.4 Configuring procedure 24
8.5 Operating procedure 26
8.6 Time synchronization 26

9. Test associations **26**

9.1 Behavior with standard configuration **27**
9.2 Behavior with extended configurations **27**

10. Conformance **27**

10.1 Applicability **27**
10.2 Conformance specification **27**
10.3 Levels of conformance **28**
10.4 Implementation conformance statements **28**

Annex A (informative) Bibliography **33**

Annex B (normative) Any additional ASN.1 definitions **34**

Annex C (normative) Allocation of identifiers **35**

Annex D (informative) Message sequence examples **36**

Annex E (informative) Protocol data unit examples **38**