

E DIN EN ISO/IEEE 11073-10421:2024-06 (E)

Erscheinungsdatum: 2024-05-10

Health informatics - Device interoperability - Part 10421: Personal Health Device Communication - Device Specialization - Peak expiratory flow monitor (peak flow) (ISO/IEEE FDIS 11073-10421:2024); English version prEN ISO 11073-10421:2024

Contents

	Page
1. Overview	13
1.1 Scope	13
1.2 Purpose	13
1.3 Word usage	14
2. Normative references	14
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	16
4.1 General	16
4.2 Introduction to IEEE 11073-20601 modeling constructs	16
4.3 Compliance with other standards	17
5. Peak expiratory flow monitor device concepts and modalities	18
5.1 General	18
5.2 PEF	18
6. Peak expiratory flow monitor domain information model	20
6.1 Overview	20
6.2 Class extensions	20
6.3 Object instance diagram	20
6.4 Types of configuration	22
6.5 Medical device system object	22
6.6 Numeric objects	26
6.7 Real-time sample array objects	36
6.8 PM-store objects	39
6.9 Scanner objects	39
6.10 Class extension objects	39
6.11 Peak expiratory flow monitor information model extensibility rules	39
7. Peak expiratory flow monitor service model	39
7.1 General	39
7.2 Object access services	40
7.3 Object access event report services	41
8. Peak expiratory flow monitor communication model	41
8.1 Overview	41
8.2 Communications characteristics	41
8.3 Association procedure	42
8.4 Configuring procedure	44
8.5 Operating procedure	46
8.6 Time synchronization	47
9. Test associations	47
9.1 Behavior with standard configuration	47
9.2 Behavior with extended configurations	48

10. Conformance	48
10.1 Applicability	48
10.2 Conformance specification	48
10.3 Levels of conformance	49
10.4 Implementation conformance statements (ICSSs)	49
Annex A (informative) Bibliography	54
Annex B (normative) Any additional ASN.1 definitions	55
Annex C (normative) Allocation of identifiers	56
Annex D (informative) Message sequence examples	57
Annex E (informative) Protocol data unit examples	59
E.1 General.....	59
E.2 Association information exchange	59
E.3 Configuration information exchange.....	62
E.4 GET MDS attributes service	66
E.5 Data reporting.....	67
E.6 Disassociation.....	69
Annex F (informative) Revision History	70