

ISO/IEEE 11073-10427:2018-01 (E)

Health informatics - Personal health device communication - Part 1 0427: Device specialization - Power status monitor of personal health devices

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 (PHDs).....	14
4.1 General.....	14
4.2 Introduction to IEEE 11073-20601 modeling constructs.....	15
4.3 Compliance with other standards.....	15
5. Power status monitor concepts and modalities.....	16
5.1 General.....	16
5.2 Use case.....	16
6. Power status monitor domain information model.....	16
6.1 Overview.....	16
6.2 Class extensions.....	16
6.3 Object instance diagram.....	17
6.4 Types of configuration.....	18
6.5 Profiles.....	19
6.6 Medical device system (MDS) object.....	19
6.7 Numeric objects.....	23
6.8 Real-time sample array objects.....	25
6.9 Enumeration objects.....	25
6.10 PM-store objects.....	28
6.11 Scanner objects.....	31
6.12 Class extension objects.....	31
6.13 PSM information model extensibility rules.....	32
7. PSM service model.....	32
7.1 General.....	32
7.2 Object access services.....	32
7.3 Object access event report services.....	32
8. PSM communication model.....	35
8.1 Overview.....	35
8.2 Communication characteristics.....	35
8.3 Association procedure.....	36
8.4 Configuring procedure.....	37
8.5 Operating procedure.....	39
8.6 Time synchronization.....	40
9. Test associations.....	40
9.1 Behavior with standard configuration.....	40
9.2 Behavior with extended configurations.....	40
10. Conformance.....	40

10.1	Applicability	40
10.2	Conformance specification	41
10.3	Levels of conformance	41
10.4	Implementation conformance statements (ICS)	42
11.	Simple PSM Profile: Devices that can support one-to-eight batteries	46
11.1	General concepts	46
11.2	One-to-eight batteries DIM.....	46
12.	Advanced PSM profile: device that can support more than eight batteries	48
12.1	General concepts	48
12.2	More-than-eight batteries DIM.....	49
Annex A	(informative) Bibliography.....	52
Annex B	(normative) Any additional ASN.1 definitions	53
Annex C	(normative) Allocation of identifiers	55
Annex D	(informative) Message sequence examples	57
Annex E	(informative) Protocol data unit (PDU) examples	60