

ISO 14223-3:2018-02 (E)

Radiofrequency identification of animals - Advanced transponders - Part 3: Applications

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Abbreviated terms	2
5	Requirements	3
5.1	General	3
5.2	Transmission protocol	4
5.3	AID reading access	4
5.4	Single Access Memory (SAM)	4
5.5	Data Dictionary Memory (DDM)	5
5.6	Sensor Data field	5
5.7	User_Data field	5
6	Memory Data Structure	5
6.1	Overview	5
6.2	Data_Config field (Block #4) — Structure	6
6.2.1	Overview of the Data_Config field	6
6.2.2	Overview of the configuration flag byte field	7
6.3	Data_Config field (Block #4) — General coding	7
6.3.1	Overview	7
6.3.2	Page ≥ 1 flag	9
6.3.3	User_Block flag	9
6.3.4	Data Format flag	9
6.3.5	Sensor flag	9
6.3.6	DDM flag	9
6.3.7	Proprietary flag	9
6.3.8	Additional Memory flag	9
6.3.9	No SAM present	9
6.3.10	ISO Pre Defined DFID	9
6.3.11	RFU flag	10
7	Page = 0 configuration	10
7.1	Data_Config field — DFID Coding	10
7.2	Data_Config field — Proprietary Coding	11
7.3	Data_Config field DSFID Coding	11
7.4	Data_Config field DDM Coding	12
7.5	Sensor Block coding	12
7.6	DFID Code Definition	13
7.6.1	General	13
7.6.2	DFID Item “0000 0001” General Animal (SAM)	13
7.6.3	DFID Item codes “0000 0010” to “1111 1111” RFU	14
7.7	DDM	14
7.7.1	General	14
7.7.2	DDM SECTION HEADER	15
7.7.3	DDM SECTION BODY: DDM FIELDS	16
7.7.4	DDM SECTION BODY: DDM FIELD variable length concept	17
7.8	Explanation and examples of the TLV concept (variable versus fixed length)	18

8	Page ≥ 1 data access mode specification (DSFID)	18
Annex A	(informative) ISO 14223-3 Concept state diagram	19
Annex B	(informative) Examples of the Memory Structure	20
Annex C	(normative) DDM Dictionary	21
Annex D	(informative) DDM: Complete example	25
Annex E	(informative) TLV Coding Examples	27
Annex F	(normative) Activate Sensor command	28
Annex G	(normative) DFID Item 02 Canine visceral leishmaniasis and rabies vaccines	29