ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	dormakaba International Holding GmbH
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-DOR-20220258-CBA2-EN
Issue date	19/10/2022
Valid to	18/10/2027

Remote reader 91 25 dormakaba



www.ibu-epd.com | https://epd-online.com



General Information

dormakaba

Programme holder

IBU – Institut Bauen und Umwelt e.V. Hegelplatz 1 10117 Berlin Germany

Declaration number

EPD-DOR-20220258-CBA2-EN

This declaration is based on the product category rules:

Electronic and physical Access Control Systems, 07.2019 (PCR checked and approved by the SVR)

Issue date

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Valid to

18/10/2027

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Dipl. Ing. Hans Peters (chairman of Institut Bauen und Umwelt e.V.)

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Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.))

Product

Product description/Product definition

The dormakaba remote reader 91 25 is a powerful access control unit which monitors many access points. Thanks to an extensive range of operating modes, the dormakaba remote reader 91 25 supports all commonly implemented door configurations. Two registration units can be connected to one remote reader, meaning one reader is sufficient to achieve an in/out configuration. Modularly extendible digital inputs and outputs enable the monitoring of frame and deadbolt contacts in complex door configurations, as well as the setting off alarms.

For the placing on the market in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) the following legal provisions apply:

- Restriction of Hazardous Substances (RoHS)
- Radio Equipment Directive (RED)

The CE-marking takes into account the proof of conformity with the respective harmonized standards based on the legal provisions above. For the

Remote reader 91 25

Owner of the declaration

dormakaba International Holding GmbH DORMA Platz 1 58256 Ennepetal Germany

Declared product / declared unit

1 piece of the product: Remote reader 91 25

Scope:

This EPD refers to a specific product manufactured by dormakaba. The production site is located in Villingen-Schwenningen (Germany).

The data represents the year 2020.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of *EN* 15804+A2. In the following, the standard will be simplified as *EN* 15804.

Verification

The stand	dard <i>EN 15804</i>	serves a	as the core PCR
Independe	nt verification o	f the dea	claration and data
	according to IS	O 1402	5:2011
	internally	Х	externally



Dr.-Ing. Wolfram Trinius (Independent verifier)

application and use the respective national provisions apply.

Application

The reader is particularly suitable for demanding access points, such as turnstiles and personal interlocks, where a high level of security is required. The remote reader 91 25 is available in different versions, depending on type of function, and supports selected devices from other manufacturers, as well as dormakaba registration units.

Areas of application:

- Turnstiles
- Personal interlocks
- External gates and gateways
- Automatic doors
- Lifts
- Car park barriers
- Entrance areas
- Motor locks

Technical Data

The remote reader 91 25 has the following technical properties:

Name	Value	Unit
Operating Temperature	0 - 50	°C
Operating Humidity	0 - 95	%
Width Dimension	125	mm
Height Dimension	102	mm
Depth Dimension	45	mm
Weight (without packaging)	0,176	kg
Weight (with packaging)	0,249	kg
Power consumption "idle mode"	2	W
Power consumption "on mode"	5	W

Interfaces

- · 2 coaxial connections for registration units
- RS-485: Connection to host system
- 4 binary inputs: max. 5 V DC
- 3 relay outputs: max. 34 V DC/60 W, 27 V AC/60 VA
- 1 tamper switch
- 2 RS-232 interfaces

Supported RFID technologies

- LEGIC (advant & prime)
- MIFARÈ (DESFire & Classic)

Power supply

12 - 27 V AC 50/60 Hz or 10 - 34 V DC

Class of protection as per EN 60529:IP20.

The product is not harmonised in accordance with the Construction Product Regulations (CPR) but in accordance with other provisions for harmonisation of the EU. Compliance with the European Union Directive and technical specifications:

- EN 62368-1
- EN 301489-1 V2.1.1

LCA: Calculation rules

Declared Unit

The declared unit is 1 piece of the product: Remote reader 91 25.

Name	Value	Unit
Declared unit	1	pce.
Product weight including packaging	0,249	kg

System boundary

The type of EPD is: cradle to gate with options, modules C1–C4, and module D (A1-A3 + C + D and additional modules: A4 + A5 + B6)

Production - Module A1-A3

The product stage includes: — A1, raw material extraction, processing and mechanical treatments, processing of secondary material input (e.g. recycling processes), — A2, transport to the manufacturer,

- EN 301489-3 V2.1.0
- EN 300330 V2.1.1
- EN 50364

The product is subject to CE marking according to the relevant harmonization legislation.

In addition, the product also conforms to the following standards:

- UL62368-1
- CAN/CSA-22.2 No. 62368-1

Base materials/Ancillary materials

The major material compositions including the packaging of the product are listed below:

Name	Value	Unit
Electronics	45	%
Plastics	26	%
Paper	29	%

The product includes partial articles which contain substances listed in the Candidate List of REACH Regulation 1907/2006/EC (date: 17.01.2022) exceeding 0.1 percentage by mass in the alloy: no

The Candidate List can be found on the ECHA website address: https:echa.europa.eu/de/home.

Reference service life

The reference service life of the dormakaba remote reader 91 25 is estimated to be 15 years. This number is based on the support and service life and is not an estimated lifetime.

— A3, manufacturing and assembly

including provision of all materials, products and energy, as well as waste processing up to the end-of waste state.

Construction stage - Modules A4-A5

The construction process stage includes: — A4, transport to the building site;

— A5, installation into the building; including provision of all materials, products and energy, as well as waste processing up to the end-ofwaste state or disposal of final residues during the construction process stage.

Use stage - Module B6

The use stage related to the operation of the building includes:

- B6, operational energy use

End-of-life stage- Modules C1-C4 and D

The end-of-life stage includes:

- C1, de-construction, demolition:
- C2, transport to waste processing;



C3, waste processing for reuse, recovery and/or recycling;

- C4, disposal;

including provision and all transport, provision of all materials, products and related energy and water use. Module D (Benefits and loads beyond the system boundary) includes:

- D, recycling potentials, expressed as net impacts and benefits.

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account.

Background database: GaBi, SP40.

LCA: Scenarios and additional technical information

Characteristic product properties Information on biogenic Carbon

relevant scenario information Collection rate is 100%.

Information on describing the biogenic Carbon Content at factory gate

Name	Value	Unit
Biogenic carbon content in	0.03	kg C
accompanying packaging	0.05	Ky C

The following technical scenario information is required for the declared modules.

Transport to the building site (A4)

Name	Value	Unit
Litres of fuel per 1 kg (truck)	0.002766	l/100km
Transport distance (truck)	100	km
Capacity utilisation (including empty runs)	55	%

Installation into the building (A5)

Name	Value	Unit
Waste Packaging (paper)	0,072	kg

Reference service life

Name	Value	Unit
Life Span according to the	10	2
manufacturer	12	а

Operational energy use (B6) and Operational water use (B7)

The use stage is declared for 12 years.

Name	Value	Unit
Energy consumption for 1 year	13,51	kWh
on mode per day	4	h
idle mode	20	h
on mode power	5	W
idle mode	2	W
Days per year in use	365	days

End of life (C1-C4)

C1: The product dismantling from the building is done manually without environmental burden.

Name	Value	Unit
Collected separately	0.177	kg
Recycling	0.112	kg
Energy recovery	0.064	kg
Final deposition	0,0005	kg
Transportation to Waste	50	km
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Region for end of life: Global

Reuse, recovery and/or recycling potentials (D),

LCA: Results

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RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 piece Remote reader 91 25											
Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D	
PM	[Disease Incidence]	2.90E-7	1.10E-11	1.58E-10	9.05E-6	0.00E+0	3.12E-12	3.71E-10	6.74E-13	-7.05E-9	
IRP	[kBq U235- Eq.]	9.90E-2	4.53E-6	2.62E-4	1.78E+1	0.00E+0	1.29E-6	2.53E-4	1.17E-7	-2.20E-2	
ETP-fw	[CTUe]	1.97E+1	2.10E-2	1.50E-2	4.23E+2	0.00E+0	6.00E-3	2.80E-2	5.69E-5	-6.35E-1	
HTP-c	[CTUh]	1.16E-9	3.94E-13	8.08E-13	1.98E-8	0.00E+0	1.12E-13	2.46E-12	8.43E-15	-3.38E-11	
HTP-nc	[CTUh]	5.46E-8	1.68E-11	3.50E-11	8.28E-7	0.00E+0	4.80E-12	2.49E-10	9.29E-13	-1.99E-9	
SQP	[-]	1.89E+1	7.59E-5	9.00E-3	3.19E+2	0.00E+0	2.16E-5	2.30E-2	2.08E-5	-4.98E-1	
Caption	PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index										

Disclaimer 1 – for the indicator IRP

This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators ADPE, ADPF, WDP, ETP-fw, HTP-c, HTP-nc, SQP The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

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