

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-20210209-CBA1-EN
Issue date	07.10.2021
Valid to	06.10.2026

Terminal 96 00
dormakaba

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



General Information

<p>dormakaba</p> <hr/> <p>Programme holder IBU – Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany</p> <hr/> <p>Declaration number EPD-DOR-20210209-CBA1-EN</p> <hr/> <p>This declaration is based on the product category rules: Electronic and physical Access Control Systems, 07.2019 (PCR checked and approved by the SVR)</p> <hr/> <p>Issue date 07.10.2021</p> <hr/> <p>Valid to 06.10.2026</p> <hr/> <p> Dipl. Ing. Hans Peters (chairman of Institut Bauen und Umwelt e.V.)</p> <hr/> <p> Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.)</p>	<p>Terminal 96 00</p> <hr/> <p>Owner of the declaration dormakaba International Holding GmbH DORMA Platz 1 58256 Ennepetal Germany</p> <hr/> <p>Declared product / declared unit 1 piece of the product: Terminal 96 00</p> <hr/> <p>Scope: This EPD refers to a specific product manufactured by dormakaba. The production site is located in Villingen-Schwenningen (Germany).</p> <p>The data represents the year 2019.</p> <p>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.</p> <p>The EPD was created according to the specifications of <i>EN 15804+A2</i>. In the following, the standard will be simplified as <i>EN 15804</i>.</p> <hr/> <p>Verification</p> <table border="1"> <tr> <td colspan="2">The standard <i>EN 15804</i> serves as the core PCR</td> </tr> <tr> <td colspan="2">Independent verification of the declaration and data according to <i>ISO 14025:2010</i></td> </tr> <tr> <td><input type="checkbox"/> internally</td> <td><input checked="" type="checkbox"/> externally</td> </tr> </table> <hr/> <p> Dr.-Ing. Wolfram Trinius (Independent verifier)</p>	The standard <i>EN 15804</i> serves as the core PCR		Independent verification of the declaration and data according to <i>ISO 14025:2010</i>		<input type="checkbox"/> internally	<input checked="" type="checkbox"/> externally
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Product

Product description/Product definition

Secure and uncomplicated time recording with the terminal 96 00. A flexible, small all-rounder that you can expand later easily. The user interface offers extensive configuration options to be adapted to your corporate identity featuring company-specific content and applications. Its stable housing and robust glass screen make the terminal durable and versatile in application. The employee identification is done via integrated radio-frequency identification (RFID) reader using an RFID medium or smartphone.

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:

- *Radio Equipment Directive (RED)*
- *Restriction of Hazardous Substances (RoHS)*
- *EN 50581:2012*

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

application and use the respective national provisions apply.

Application

- Attendance recording
- Door Control
- Staff Communication

Technical Data

The terminal 96 00 has the following technical properties:

Name	Value	Unit
Operating Temperature	-25 - 55	°C
Operating Humidity	5 - 85	%
Width Dimension	89	mm
Height Dimension	177	mm
Depth Dimension	32	mm
Weight (without packaging)	0,485	kg
Weight (with packaging)	0,756	kg
Power consumption "on mode"	12	W
Power consumption "idle mode"	8	W

Power consumption "standby mode"	5	
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- EN 62311:2008
- EN 62368-1:2014

Host Interface

- Ethernet 10/100/1000BASE-T IEEE802.3 compatible
- Optional WLAN IEEE802.11 a/b/g/n (2,4/5 GHz)

User Interface

- 4" illuminated touch screen display
- Loudspeaker
- RFID reader
 - MRD (LEGIC / MIFARE)
 - HID (iClass SE Prox)
- MAG stripe reader (optional)
- Booking via smartphone
 - NFC (Android)
 - BLE (Android+iOS)
- CardLink to integrate offline door components

Peripherals Interface

- 4 digital inputs / 2 relay outputs via Add-On

Power supply

- PoE IEEE802.3at
Power class 0 (0.44–12.95 W)

Installation

- Wall mounting
- Class of protection: IP20/IP65

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 300330 V2.1.1
- EN 301489-1 V2.2.0
- EN 301489-3 V2.1.1

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

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

- UL 62368-1:2014
- CAN/CSA-22.2 No. 62368-1:2014
- FCC Part 15 Class C

Base materials/Ancillary materials

The major material compositions of the product are listed below:

Name	Value	Unit
Paper	36	%
Aluminium	26	%
Electronics	21	%
Plastics	15	%
Glass	1	%
Others	1	%

The product includes partial articles which contain substances listed in the Candidate List of REACH Regulation 1907/2006/EC (date: 08.07.2021) exceeding 0.1 percentage by mass: no

Reference service life

The reference service life of the dormakaba Terminal 96 00 is estimated to be 10 years. This number is based on the support and service life and is not an estimated lifetime.

LCA: Calculation rules

Declared Unit

The declared unit is 1 piece of the product: Terminal 96 00.

Declared unit

Name	Value	Unit
Declared unit	1	pce.
Conversion factor to 1 kg (kg per declared unit)	1.32	-
Product weight including packaging	0,756	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,
- 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-of-waste 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

Information on describing the biogenic Carbon Content at factory gate

Name	Value	Unit
Biogenic Carbon Content in accompanying packaging	0.1	kg C

Region for end of life: Global

Reuse, recovery and/or recycling potentials (D), relevant scenario information

Collection rate is 100%.

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)	0.00276	l/100km
Transport distance (truck)	1200	km
Transport distance (ship)	20500	km
Capacity utilisation (including empty runs)	55	%

Installation into the building (A5)

Name	Value	Unit
Waste Packaging (paper)	0,2705	kg

Reference service life

Name	Value	Unit
Life Span according to the manufacturer	10	a

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

The use stage is declared for 15 years.

Name	Value	Unit
Energy consumption for 1 year	48.9	kWh
on mode per day	1	h
idle mode	3	h
on mode power	12	W
idle mode	8	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	0.485	kg
Recycling	0.349	kg
Energy recovery	0.111	kg
Final deposition	0,0253	kg
Transportation to Waste Processing Site	50	km

LCA: Results

Disclaimer:

EP-freshwater: This indicator has been calculated as "kg P eq" as required in the characterization model (EUTREND model, Struijs et al., 2009b, as implemented in ReCiPe; <http://eplca.jrc.ec.europa.eu/LCDN/developerEF.xhtml>).

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	ND	ND	MNR	MNR	MNR	X	ND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 piece Terminal 96 00

Core Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ -Eq.]	4.76E+1	1.02E-1	3.17E+0	3.28E+2	0.00E+0	3.83E-2	1.44E-1	2.80E-2	-2.31E+0
GWP-fossil	[kg CO ₂ -Eq.]	5.02E+1	9.76E-2	1.29E-1	3.26E+2	0.00E+0	3.66E-2	1.44E-1	2.79E-2	-2.31E+0
GWP-biogenic	[kg CO ₂ -Eq.]	-2.72E+0	4.51E-3	3.04E+0	1.09E+0	0.00E+0	1.69E-3	3.35E-6	9.52E-5	1.26E-3
GWP-luluc	[kg CO ₂ -Eq.]	7.00E-2	2.32E-6	5.42E-5	4.73E-1	0.00E+0	8.72E-7	8.13E-6	8.02E-5	-3.17E-3
ODP	[kg CFC11-Eq.]	3.49E-9	1.03E-17	5.88E-16	7.18E-12	0.00E+0	3.87E-18	7.26E-17	1.03E-16	-1.71E-14
AP	[mol H ⁺ -Eq.]	3.00E-1	9.77E-5	8.83E-4	7.20E-1	0.00E+0	3.67E-5	2.56E-5	2.00E-4	-2.54E-2
EP-freshwater	[kg P-Eq.]	3.38E-4	2.09E-8	1.14E-7	8.71E-4	0.00E+0	7.84E-9	1.16E-8	4.78E-8	-2.34E-6
EP-marine	[kg N-Eq.]	4.55E-2	3.11E-5	3.17E-4	1.60E-1	0.00E+0	1.17E-5	5.78E-6	5.14E-5	-2.06E-3
EP-terrestrial	[mol N-Eq.]	4.82E-1	3.46E-4	3.97E-3	1.68E+0	0.00E+0	1.30E-4	1.17E-4	5.65E-4	-2.22E-2
POCP	[kg NMVOC-Eq.]	1.37E-1	8.79E-5	8.42E-4	4.38E-1	0.00E+0	3.30E-5	1.60E-5	1.56E-4	-6.72E-3
ADPE	[kg Sb-Eq.]	1.06E-2	2.93E-9	9.23E-9	9.44E-5	0.00E+0	1.10E-9	9.95E-10	2.50E-9	-1.13E-3
ADPF	[MJ]	6.11E+2	1.38E+0	1.01E+0	5.73E+3	0.00E+0	5.20E-1	6.67E-2	3.66E-1	-3.37E+1
WDP	[m ³ world-Eq deprived]	1.35E+1	1.91E-4	3.92E-1	7.11E+1	0.00E+0	7.18E-5	1.47E-2	2.92E-3	-7.74E-1

Caption: GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 piece Terminal 96 00

Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
PERE	[MJ]	1.56E+2	4.36E-3	2.66E+1	2.54E+3	0.00E+0	1.64E-3	3.16E-2	4.79E-2	-6.31E+0
PERM	[MJ]	2.64E+1	0.00E+0	-2.64E+1	0.00E+0	0.00E+0	0.00E+0	-1.43E-2	0.00E+0	0.00E+0
PERT	[MJ]	1.83E+2	4.36E-3	1.85E-1	2.54E+3	0.00E+0	1.64E-3	1.73E-2	4.79E-2	-6.31E+0
PENRE	[MJ]	6.04E+2	1.39E+0	1.87E+0	5.74E+3	0.00E+0	5.20E-1	6.45E+0	3.66E-1	-3.37E+1
PENRM	[MJ]	7.24E+0	0.00E+0	-8.60E-1	0.00E+0	0.00E+0	0.00E+0	-6.38E+0	0.00E+0	0.00E+0
PENRT	[MJ]	6.12E+2	1.39E+0	1.01E+0	5.74E+3	0.00E+0	5.20E-1	6.67E-2	3.66E-1	-3.37E+1
SM	[kg]	7.49E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
RSF	[MJ]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	[MJ]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	[m ³]	3.29E-1	7.83E-6	9.23E-3	2.94E+0	0.00E+0	2.94E-6	3.52E-4	9.22E-5	-1.65E-2

Caption: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 piece Terminal 96 00

Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
HWD	[kg]	2.87E-5	1.34E-10	1.54E-9	2.37E-6	0.00E+0	5.04E-11	2.54E-10	5.57E-9	1.06E-7
NHWD	[kg]	3.11E+0	1.42E-4	1.03E-1	4.07E+0	0.00E+0	5.32E-5	1.49E-2	1.84E+0	-3.36E-1
RWD	[kg]	1.71E-2	1.49E-6	5.26E-5	8.70E-1	0.00E+0	5.58E-7	2.48E-6	4.16E-6	-1.51E-3
CRU	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.38E+0	0.00E+0	0.00E+0
MER	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EEE	[MJ]	8.58E-1	0.00E+0	4.81E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EET	[MJ]	1.56E+0	0.00E+0	8.77E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0

Caption: HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported

thermal energy										
RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 piece Terminal 96 00										
Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
PM	[Disease Incidence]	3.07E-6	5.14E-10	4.95E-9	6.04E-6	0.00E+0	1.93E-10	3.27E-10	2.47E-9	-2.05E-7
IRP	[kBq U235-Eq.]	1.69E+0	2.13E-4	8.09E-3	1.43E+2	0.00E+0	7.98E-5	2.23E-4	4.28E-4	-2.44E-1
ETP-fw	[CTUe]	2.96E+2	9.81E-1	4.76E-1	2.45E+3	0.00E+0	3.68E-1	2.50E-2	2.09E-1	-1.49E+1
HTP-c	[CTUh]	4.17E-8	1.85E-11	2.55E-11	6.78E-8	0.00E+0	6.93E-12	2.17E-12	3.09E-11	-1.07E-9
HTP-nc	[CTUh]	1.08E-6	7.89E-10	1.15E-9	2.50E-6	0.00E+0	2.96E-10	2.19E-10	3.41E-9	-7.13E-8
SQP	[-]	5.44E+2	3.56E-3	2.68E-1	1.83E+3	0.00E+0	1.34E-3	2.00E-2	7.62E-2	-1.34E+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.

References

Standards

CAN/CSA-22.2 No. 62368-1

CAN/CSA-22.2 No. 62368-1:2014, Audio/video, information and communication technology equipment — Part 1: Safety requirements.

EN 15804+A2

EN 15804:2019+A2 (in press), Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

EN 300330

EN 300330:2017, Short Range Devices (SRD) - Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz - Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU.

EN 301489-1

EN 301489-1:2017, ElectroMagnetic Compatibility (EMC) standard for radio equipment and services - Part 1: Common technical requirements - Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU.

EN 301489-3

EN 301489-3:2017, ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU.

EN 50581

EN 50581:2012, Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

EN 62311

EN 62311:2008, Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields.

EN 62368-1

EN 62368-1:2014, Audio/video, information and communication technology equipment - Part 1: Safety requirements.

FCC Part 15 Class C

RADIO FREQUENCY DEVICES.

ISO 14025

DIN EN ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

Radio Equipment Directive (RED)

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC.

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restriction of Hazardous Substances (RoHS)

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), Directive (EU) No 2011/65.

UL 62368-1

UL 62368-1:2014, Standard for Audio/video, information and communication technology equipment - Part 1: Safety requirements.

Further References**IBU 2016**

Institut Bauen und Umwelt e.V.: General Instructions for the EPD programme of Institut Bauen und Umwelt e.V. Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021.

GaBi ts software

Sphera Solutions GmbH
Gabi Software System and Database for Life Cycle Engineering 1992-2020
Version 10.0.0.71
University of Stuttgart
Leinfelden-Echterdingen

GaBi ts documentation

GaBi life cycle inventory data documentation (<https://www.gabi-software.com/support/gabi/gabi-database-2020-ici-documentation/>).

LCA-tool dormakaba

LCA tool, version 1.0.
Developed by Sphera Solutions GmbH.

PCR Part A

PCR – Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019, Version 1.0, Institut Bauen und Umwelt e.V., www.ibu-epd.com.

PCR Part B

PCR – Part B: Requirements on the EPD for Building Hardware product, version 1.3, Institut Bauen und Umwelt e.V., www.ibu-epd.com, 2019.

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