

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Mechanic water metering devices

Representative product: GSD8-I

Included products: CPR-M3, CPR-RP, GMB, GMB-RP, GMDM, GSD5, GSD8, TAN-X5-I, WDE-K50.

from

B Meters S.r.l.



Programme:

The International EPD System, www.environdec.com

Programme operator:

EPD International AB

Type of EPD:

EPD of multiple products based on a representative product

EPD registration number:

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An EPD may be updated or republished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com



GENERAL INFORMATION

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@environdec.com

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): <i>Construction Products, 2019:14, version 2.0.1</i>
The PCR review was conducted by: Technical Committee of the International EPD® System. The review committee can be contacted via support@environdec.com The c-PCR review was conducted by: Gorka Benito Alonso

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
<input checked="" type="checkbox"/> Individual EPD verification without a pre-verified LCA/EPD tool Third-party verifier: <i>Guido Croce</i> Approved by: International EPD System
Procedure for follow-up of data during EPD validity involves third party verifier: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

For further information about comparability, see EN 15804 and ISO 14025.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: B Meters S.r.l.

Address: Via Friuli, 3 Gonars 33050 (UD) ITALY

Contact: Andrea Orso, e-mail: andrea.orsa@bmeters.com

Address and contact information of the LCA practitioner commissioned by the EPD owner, if applicable:

Prof. Dott. Michela Gallo, e-mail: gallo@tetisintitute.it

Ing. Flavia Francesca, e-mail: francesca@tetisintitute.it

Description of the organisation: B METERS is an Italian company specialized in the design, production and distribution of instruments for measuring the consumption of water and thermal energy, founded in 1991 by the Budai family. With over thirty years of experience in the metering sector, the company has consolidated its presence on both the national and international markets. The organization of B METERS is based on the Gonars plant (province of Udine, Friuli-Venezia Giulia) spread over a total area of about 12,000 m². Today B METERS produces over 2.2 million meters every year, a volume that testifies to its relevance in the European metering landscape. Its sales network reaches more than 90 countries, a sign of a strong global vocation that supports its activities on the domestic market. This market breadth translates into operations on a national and international scale, with customers ranging from water utilities to industries and private users.

The historical headquarters and production lines are concentrated in Gonars (UD). B METERS has invested heavily in automation, with fully automated assembly lines and state-of-the-art electronic test benches. On an environmental level, the company has installed a photovoltaic system to power the production of its meters, the system covers an area of over 400 m², and generates about 200 MWh per year, helping to reduce the company's energy impact.

Product-related or management system-related certifications: The B METERS product line is very articulated and designed to meet different needs. It offers mechanical "residential" water meters (turbine, single jet or multi jet) versions with magnetic transmission, Woltmann for large flows, meters for irrigation and electronic flow meters. On the heating and cooling front, the company manufactures mechanical as well as heat allocators / thermal sensors. In addition, B METERS integrates communication modules into its remote reading tools, and operates a cloud platform that collects consumption data for analysis and monitoring.

B METERS operates according to high standards in terms of metrological quality and accuracy: all its meters comply with module D of Directive 2014/32/EU (MID). On an organizational level, the company is certified with ISO 9001:2015 for quality and ISO 14001:2015 for environmental management. Depending on the target market, many products are recognized and approved in accordance with the legislation of the country of sale as suitable for contact with drinking water. The main certifications include the Italian DM 174 approval, the French, English, Swedish and Polish approvals, the Australian Approval Mark, as well as the approvals for Bosnia, Serbia and Ukraine. In addition, B METERS carries

out calibration and metrological tests according to the UNI EN 17025 standard, thanks to accredited internal laboratories.

PRODUCT INFORMATION

Product name: Mechanic water meter (Representative product: GSD8-I)

Product identification: GSD8-I

Visual representation (e.g., an image) of the product:



UN CPC code: 48252 - Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases, except navigational, hydrological or meteorological instruments and appliances, gas or liquid supply meters and automatic regulating or controlling instruments and apparatus.

Product description: The mechanical water meter range of B Meters includes single-jet and multi-jet mechanical meters, magnetic or mechanical transmission types, suitable for residential as well as light commercial contexts. These water meters cover nominal sizes DN15 (½") and DN20 (¾") and handle both cold water (up to 50 °C) and hot water (up to 90 °C). All models feature dry-dial direct reading with multi-digit counters, threaded end connections compliant with EN ISO 228-1, and are certified according to the MID directive (e.g. for the GSD series) ensuring regulatory compliance and measurement accuracy. Typical flow rate ranges see permanent flow (Q_3) between 1.6 and 4.0 m^3/h , maximum flow (Q_4) up to 5.0 m^3/h , minimum detectable flows down to 0.05 L, and maximum operating pressure of 16 bar. In many models the dial is rotatable 360°, facilitating reading regardless of installation orientation. Moreover, some meters are pre-equipped to integrate M-BUS, wireless M-BUS or LoRa telemetry modules, enabling retrofit to automated remote-reading (AMR) systems in the future.

Name and location of production site(s): B Meters S.r.l. - Via Friuli, 3/4/5 Gonars 33050 (UD) ITALY

List of products included in this EPD: CPR-M3, CPR-RP, GMB, GMB-RP, GMDM, GSD5, GSD8, TAN-X5-I, WDE-K50.

CONTENT DECLARATION

- The mass (weight) of one unit of a product, as purchased or per declared unit: 0,46 kg (0,55 kg including packaging)
- Content of the product in the form of a list of materials and substances, and their mass:

MATERIAL	WEIGHT [kg]	WEIGHT OF RECYCLED MATERIAL [kg]
Brass	0,3405	0
AISI 304 L	0,0016	0,0011
PP T300 sinopec	0,0187	0
Noryl GFN2	0,0178	0
EPDM	0,0006	0
PP	0,0009	0
Austenitic steel	0,0115	0
Iron	0,0075	0
NBR	0,0019	0
ABS	0,0166	0
Ruby	0,0000	0
Polycarbonate	0,0021	0
POM	0,0032	0
PP hostaform	0,0004	0
ABS + SAN	0,0275	0
PVC	0,0001	0
PA66	0,0007	0
Aluminosilicate	0,0000	0
Magnets	0,0019	0
Titanium	0,0002	0
SAN	0,0065	0
AISI 304	0,0001	0
TOTAL	0,46	

- The mass and the content of distribution and/or consumer packaging:

Typology	Material	Weight [kg/pc]	From recycling
PRIMARY	cardboard	0,069	No
SECONDARY	plastic	0,002	No

TERTIARY	wood	0,015	No
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- Information on the environmental and hazardous/toxic properties of a substances contained in the product: The products contain a brass alloy CuZn40Pb2 – BRASS CW 617, which contains a small percentage of lead, included in the Candidate List of Substances of Very High Concern (SVHC) under REACH. The amount of this substance represents less than 1% of the total weight of the meter and is therefore considered a *cut-off* according to the applicable modelling rules. In the LCA modelling performed in SimaPro, replacing the equivalent percentage of copper with the same mass of lead shows that the environmental impacts actually decrease, since copper contributes more significantly across all impact categories required by the EPD and the relevant PCR. Therefore, it is conservative and methodologically sound for this study not to explicitly include the lead percentage contained within the brass alloy. No other hazardous or toxic substances are intentionally added or present above the relevant threshold limits in the formulation of the products.

Hazardous substances from the candidate list of SVHC	EC No.	CAS No.	Mass-% per product or declared unit
CuZn40Pb2 – BRASS CW 617	231-100-4	7439-92-1	0,994%

- Other information on substances with hazardous and toxic properties: The declared biogenic carbon content is conservatively set to zero, as no biogenic materials are present in the composition of the mechanic water meter. Likewise, no recycled materials are currently used in the formulation of the products or the packaging. The packaging accounts for less than 16% of the total product weight.
- The declared share of biogenic/recycled materials: Less than 1% of materials in the composition of the meter are from recycled materials. The quantity of biogenic C content in the packaging is 0,053 kg C per product, equivalent to 9,63% of the total product weight. 1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

LCA INFORMATION

Declared unit: 1 unit of water meter, with or without communication module.

Conversion factor to mass if mass is not used as functional/declared unit: 0,55 kg (packaging included)

Reference service life: 10 years

Time representativeness: Primary data was collected internally. The production data refers to the average of the year 2024 (January 2024 – December 2024).

Geographical scope: A1- A3, A4 Global; A5 EU 27, B2, B6 Global; C1-C3 EU 27; D EU 27.

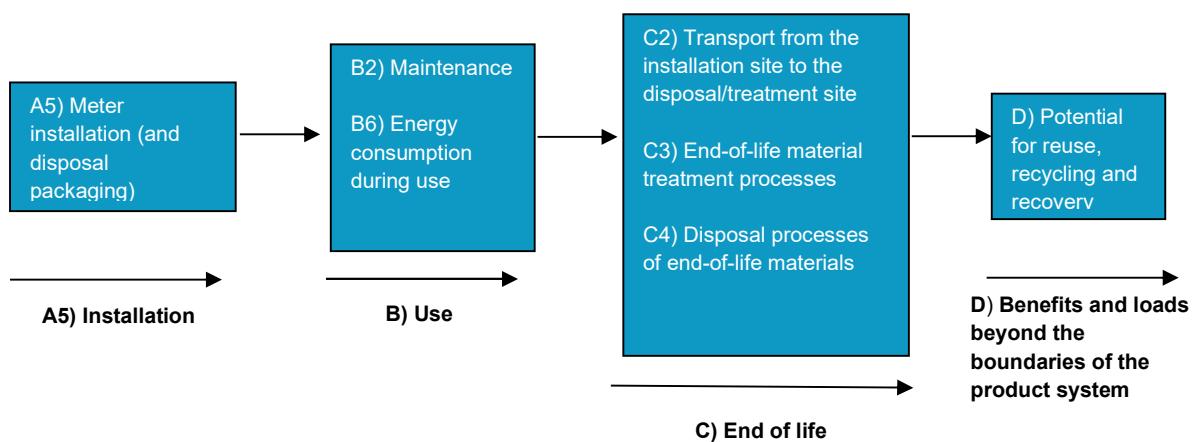
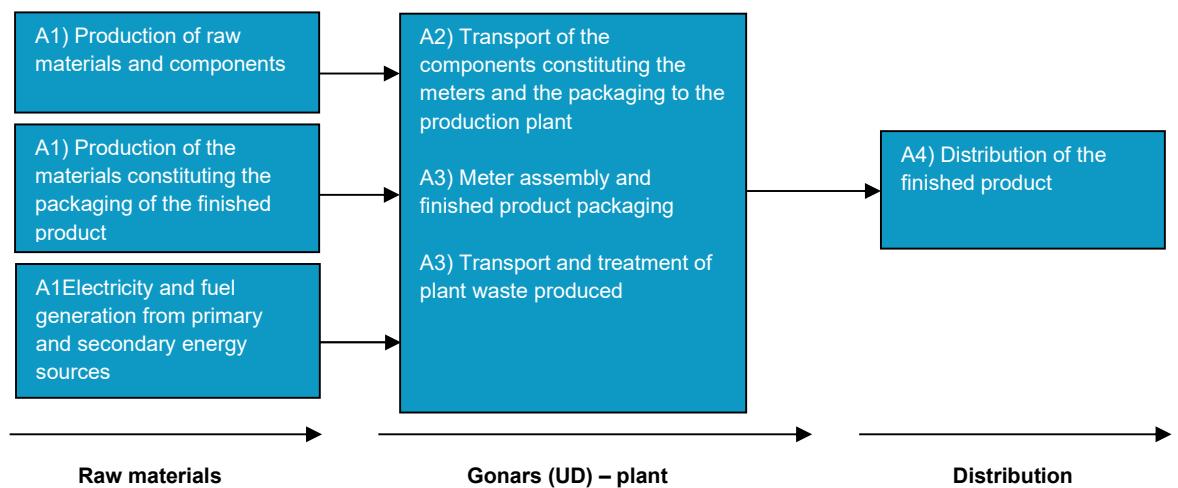
Database and LCA software used: The calculation model used is Sima Pro vers.10.2 and the database used is Ecoinvent 3.11.

Description of system boundaries:

The study conducted is of the type: “**cradle-to-grave**” (**and module D**) EPD (**declared unit**). Modules B1, B3, B4, B5 and B7 have been excluded from the boundaries of the system as they are not applicable for the type of product under study.

Process flow diagram:

Process flow diagram of the product system are showed in the following scheme:



More information:

The electricity used in the production process (module A3) is supplied by the national grid and partially sourced from the self-consumption of the photovoltaic system installed on the roof of the Gonars facility.

For the reporting year 2024, the electricity supply was modelled using the Italian residual mix, with a corresponding climate impact of **0.676 kg CO₂ eq per kWh** according to the GWP-GHG indicator.

A data quality assessment was conducted in accordance with the requirements of GPI5 and the PCR 2019:03, covering at least 80% of the contributions to the environmental impact indicators. Primary data were collected from B Meters S.r.l. production site for the reference year 2024. Secondary data were sourced mainly from the Ecoinvent v3.11 database. Since the main raw materials are modelled through generic datasets rather than product-specific EPDs, the overall share of primary data contributing to the GWP-GHG results for modules A1–A3 is below 90%, amounting to **5.71%**.

Process	Source Type	Source	Reference year	Data category	Primary Data Share
Electricity consumption	Database	B Meters S.r.l.	2024	Primary data	2,25%
Water consumption	Data collected	B Meters S.r.l.	2024	Primary data	0%
Transport of incoming components	Database	B Meters S.r.l.	2024	Primary data	3,46%
Brass production	Database	Ecoinvent v3.11	2024	Secondary data	0%
Stainless steel production	Database	Ecoinvent v3.11	2024	Secondary data	0%
ABS production	Database	Ecoinvent v3.11	2024	Secondary data	0%
Polypropylene production	Database	Ecoinvent v3.11	2024	Secondary data	0%
Production of other components	Data collected	Ecoinvent v3.11	2024	Secondary data	0%
TOTAL					5,71%

Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Distribution/ installation stage		Use stage						End-of-life stage				Beyond product life cycle	
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	Reuse-Recovery-Recycling-potential
Modules declared	x	x	x	x	x	ND	x	ND	ND	ND	x	ND	x	x	x	x	x
Geography	Global	Global	Global	Global	EU 27		Global				Global		EU 27	EU 27	EU 27	EU 27	EU 27
Share of primary data	5,71%					-	-	-	-	-	-	-	-	-	-	-	-
Variation - products	92%-4562%					-	-	-	-	-	-	-	-	-	-	-	-
Variation - sites	0%					-	-	-	-	-	-	-	-	-	-	-	-

Modules/processes/life-cycle stages declared shall be noted with "X".

Modules/processes/life-cycle stages not declared shall be marked as "ND".

Geographical scope shall be reported by the country code(s) (e.g., UK, FR, DE) and/or name of the region(s) (e.g., EU 27, Global).

A variation of 0% shall be reported in EPDs of one product or site.

For the use stage, the following modules are Not Declared (N.D.) as they are not relevant for the product types assessed in this LCA study: B1, B3, B4, B5, B7.

Module B2 (Maintenance) is included but results in zero impact. All B Meters products analysed have a 10-year warranty, ensuring that no maintenance is required during their entire service life. At the end of life, the meter is simply replaced with a new unit.

Module B6 (Operational energy use) is included but also results in zero impact. Mechanical meters do not require any energy input for operation.

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804

PARAMETER		UNIT	A1-A3	A4	A5	B2	B6	C1	C2	C3	C4	D
Global warming potential (GWP)	Fossil	kg CO ₂ eq	3,5178	0,1881	0,0190	0	0	0	0,0070	0,0008	0,0295	- 2,3001
	Biogenic	kg CO ₂ eq	0,2392	0,0013	0,0056	0	0	0	<0,0001	<0,0001	0,0041	- 0,1408
	Land use	kg CO ₂ eq	0,0065	0,0001	<0,0001	0	0	0	<0,0001	0,0000	<0,0001	- 0,0051
	TOTAL	kg CO₂ eq	3,7635	0,1894	0,0246	0	0	0	0,0071	0,0008	0,0337	- 2,4460
Acidification potential (AP)		mol H ⁺ eq	0,1500	0,0006	<0,0001	0	0	0	<0,0001	<0,0001	<0,0001	- 0,1388
Eutrophication potential, marine		kg N eq	0,0093	0,0002	<0,0001	0	0	0	<0,0001	<0,0001	0,0001	- 0,0077
Eutrophication potential, freshwater		kg P eq	0,0121	<0,0001	0	0	0	0	0	0	0	- 0,0112
Eutrophication potential, terrestrial		mol N eq	0,1195	0,0022	<0,0001	0	0	0	0,0001	<0,0001	<0,0001	- 0,1030
Photochemical oxidant formation potential (POFP)		kg NMVOC eq	0,0350	0,0009	<0,0001	0	0	0	<0,0001	<0,0001	<0,0001	- 0,0294
Abiotic depletion potential - Elements		kg Sb eq	0,0020	<0,0001	0	0	0	0	0	0	0	- 0,0019

Abiotic depletion potential - Fossil fuels	MJ, net calorific value	51,1877	2,6670	0,0237	0	0	0	0,0993	0,0094	0,0172	-	31,8715
Water scarcity potential	m ³ eq	2,8013	0,0103	0,0003	0	0	0	0,0004	0,0001	0,0014	-	2,3988
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption											

* Disclaimer: 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 experienced with the indicator. The EPD shall include a statement, in connection to the results of the impact indicators: "The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks." The following statement, if the EPD covers the end-of-life stage: "The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3)." For services, "A1-A3" shall be replaced by "A1-A5". If results based on an old EF version is used to develop an EPD, the EPD shall include a statement that clarifies that an EPD based on an old EF version has been used as a data source, and that this was assessed to yield identical or conservative results compared to fully using the current EF version. If biogenic carbon leaving the product system in module A5 (see Annex 2 of PCR) or recovered energy leaving the product system in modules A5 or C (see Annex 3 of PCR) have been balanced out already in modules A1-A3, a statement in this regard shall be included.

Additional mandatory and voluntary impact category indicators

PARAMETER	UNIT	A1 – A3	A4	A5	B2	B6	C1	C2	C3	C4	D
GWP-GHG**	kg CO ₂ eq	3,5472	0,1882	0,0200	0	0	0	0,0070	0,0008	0,0300	-2,3137

**This indicator takes into account all greenhouse gases, with the exception of the uptake and emissions of biogenic carbon dioxide and biogenic carbon stored in the product. Therefore, the indicator is identical to the GWP-total, except that the CF for biogenic CO₂ is set to zero.

Resource use indicators

PARAMETER		UNIT	A1-A3	A4	A5	B2	B6	C1	C2	C3	C4	D
Primary energy resources - Renewable	Use as energy carrier	MJ, net calorific value	8,4410	0,0420	0,0004	0	0	0	0,0016	0,0002	0,0005	-7,1350
	Used as raw materials	MJ, net calorific value	1,3740	0	0	0	0	0	0	0	0	0
	TOTAL	MJ, net calorific value	9,8150	0,0420	0,0004	0	0	0	0,0016	0,0002	0,0005	-7,1350
Primary energy resources - Non-renewable	Use as energy carrier	MJ, net calorific value	48,1412	2,6671	0,0237	0	0	0	0,0993	0,0094	0,0172	-31,8749
	Used as raw materials	MJ, net calorific value	3,0512	0	0	0	0	0	0	0	0	0
	TOTAL	MJ, net calorific value	51,1924	2,6671	0,0237	0	0	0	0,0993	0,0094	0,0172	-31,8749
Secondary material		kg	0,0011	0	0	0	0	0	0	0	0	0
Renewable secondary fuels		MJ	0	0	0	0	0	0	0	0	0	0
Non-renewable secondary fuels		MJ	0	0	0	0	0	0	0	0	0	0
Net use of fresh water		m ³	0,0733	0,0003	0	0	0	0	0	0	0	-0,0611
Acronyms		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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water
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Waste indicators

PARAMETER	UNIT	A1-A3	A4	A5	B2	B6	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0,0193	0,0001	0,0001	0	0	0	0	0	0,0022	-0,0082
Non-hazardous waste disposed	kg	0,6146	0,1278	0,0116	0	0	0	0,0048	0	0,0411	-0,4385
Radioactive waste disposed	kg	0,0001	0	0	0	0	0	0	0	0	-0,0001

Different scenarios for module C1-C4 and D

The following tables show the impacts associated with different waste management scenarios: 100% landfilling, 100% recycling, and 100% incineration, in compliance with the PCR.

SCENARIO		100% RECYCLE					100% LANDFILL					100% INCINERATION					
PARAMETER	UNIT	C1	C2	C3	C4	D	C1	C2	C3	C4	D	C1	C2	C3	C4	D	
Global warming potential (GWP)	Fossil kg CO ₂ eq	0	0,0070	0,00090	0	2,5121	-	0	0,0070	0	0,0132	0	0	0,0070	0	0,2390	0
	Biogenic kg CO ₂ eq	0	<0,0001	0,00001	0	0,1534	-	0	<0,0001	0	0,0113	0	0	<0,0001	0	0,0092	0
	Land use kg CO ₂ eq	0	<0,0001	0,00000	0	0,0053	-	0	<0,0001	0	0,0000	0	0	<0,0001	0	0,0000	0
	TOTAL kg CO₂ eq	0	0,0071	0,00092	0	2,6708	-	0	0,0071	0	0,0245	0	0	0,0071	0	0,2483	0

Acidification potential (AP)	mol H+ eq	0	<0,0001	0,00001	0	-	0	<0,0001	0	0,0000	0	0	<0,0001	0	0,0001	0
Eutrophication potential, marine	kg N eq	0	<0,0001	0,00000	0	-	0	<0,0001	0	0,0003	0	0	<0,0001	0	0,0000	0
Eutrophication potential, freshwater	kg P eq	0	0	0,00000	0	-	0	0	0	0,0000	0	0	0	0	0,0000	0
Eutrophication potential, terrestrial	mol N eq	0	0,0001	0,00001	0	-	0	0,0001	0	0,0001	0	0	0,0001	0	0,0004	0
Photochemical oxidant formation potential (POFP)	kg NMVOC eq	0	<0,0001	0,00000	0	-	0	<0,0001	0	0,0000	0	0	<0,0001	0	0,0001	0
Abiotic depletion potential - Elements	kg Sb eq	0	0	0,00000	0	-	0	0	0	0,0000	0	0	0	0	0,0000	0
Abiotic depletion potential - Fossil fuels	MJ, net calorific value	0	0,0993	0,01070	0	-	0	0,0993	0	0,0839	0	0	0,0993	0	0,1579	0
Water scarcity potential	m ³ eq	0	0,0004	0,00006	0	-	0	0,0004	0	0,0024	0	0	0,0004	0	0,0164	0
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption															

Additional LCA results (other environmental performance results) of the product(s)

PARAMETER	UNIT	A1 -A3
Global warming potential (GWP)	Fossil	kg CO ₂ eq
	Biogenic	kg CO ₂ eq
	Land use	kg CO ₂ eq
Acidification potential (AP)	mol H ⁺ eq	92% - 1210%
Eutrophication potential, marine	kg N eq	92% - 1939%
Eutrophication potential, freshwater	kg P eq	92% - 1208%
Eutrophication potential, terrestrial	mol N eq	92% - 1512%
Photochemical oxidant formation potential (POFP)	kg NMVOC eq	92% - 1723%
Abiotic depletion potential - Elements	kg Sb eq	91% - 1226%
Abiotic depletion potential - Fossil fuels	MJ, net calorific value	93% - 4274%
Water scarcity potential	m ³ eq	92% - 1570%

The wide variation observed across the additional environmental impact indicators (ranging from approximately 90% to 4562% on the GWP-GHG indicator) is directly attributable to the extensive heterogeneity of the mechanical water meter product range included in this EPD. The portfolio covers a very broad spectrum of meter sizes and configurations, from small domestic brass meters weighing only a few tens of grams to large industrial cast-iron meters reaching approximately 42 kg. As a result, the quantity and composition of the most impactful materials, primarily metals, vary substantially across products. Furthermore, the range includes both brass-body and cast-iron-body meters, introducing additional variability due to the markedly different material intensities associated with these two construction types. For these reasons, such significant variation is technically justified and reflects the intrinsic diversity of the product family.

ADDITIONAL INFORMATION

EPDs within the same product category, but from different programs may not be comparable.

The final results refer to the declared unit and do not take into account the life time of the product.

The final results for products with different life spans cannot be compared.

The owner of this EPD has sole ownership, responsibility and responsibility for it.

This Environmental Product Declaration and further information about it are available on the website of "The International EPD System": www.environdec.com. Programme Operator Address: EPD International AB, Box 210 60, SE-100 31 Stockholm, Sweden, E-mail: info@.environdec.com.

COMPANY

B METERS s.r.l.



Via Friuli, 3 Gonars 33050 (UD) ITALY

Tel. +39 0432 931415

Tel. +39 0432 1690412 Fax. +39 0432 992661

bmeters.com

CONTACT PERSON

Andrea Orso

Email: andrea.orso@bmeters.com

CONTACT PERSONS LCA STUDY

Prof. Dr. Michela Gallo

Email: gallo@tetisinstitute.it

Eng. Flavia Francese

francese@tetisinstitute.it

ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GRI	Global Reporting Initiative
SVHC	Substances of Very High Concern
ND	Not Declared

REFERENCES

- [1] Association of Issuing Bodies (AIB), "European Residual Mixes - Results of the calculation of Residual Mixes for the calendar year 2024", Version 1.0, 2025-05-30.
<https://www.aib-net.org/facts/european-residual-mix/2024>
- [2] EC-JRC, "EF reference package – Annex C", rev.3.1, July 2022.
<https://eplca.jrc.ec.europa.eu/EFtransition.html>
- [3] Ecoinvent 3.11, <https://ecoinvent.org/ecoinvent-v3-11/>
- [4] EPD International, "General Programme Instructions for the International EPD System", v. 5.0
[General Programme Instructions and Templates | EPD International](#)
- [5] EPD International, PCR 2019:03 Construction products (2.0.1)
<https://www.environdec.com/pcr-library>
- [6] UNI EN ISO 14040 Environmental management - Life cycle assessment - Principles and framework.
- [7] UNI EN ISO 14044 Environmental Management – Life Cycle Assessment – Requirements and Guidelines.
- [8] UNI EN ISO 14025 Environmental Management - Environmental labels and declarations - Type III environmental declarations - Principles and procedures
- [9] LCA Report "LIFE CYCLE ASSESSMENT (LCA) REPORT: Contatori meccanici, contatori elettronici & moduli di trasmissione B Meters", Vers. 1.0 2025-11-26

VERSION HISTORY

Original Version of the EPD, 2025-12-12

