Belimo information on **Data Act**

Purpose of this document

Connectivity has always been a key feature of Belimo products. Providing even better products with the right digital connection is our focus now and in the future. The Belimo Digital Ecosystem enables flexible system integration through all common building automation communication protocols and Building IoT platforms.

The Data Act (Regulation EU 2023/2854) establishes harmonised, horizontal rules to ensure fairness in the allocation of value generated from data across market actors, while safeguarding the interests of those who invest in data-generation technologies.

This document serves to fulfil the pre-contractual information obligations pursuant to Article 3(2) of the Data Act. It provides a transparent and comprehensible overview of the type, volume of the product data generated while using Belimo's connected products and the accessibility to this product data.

How to read this document

The document consists of two tables.

The first table lists all interfaces/protocols/services supported by Belimo for accessing product data.
Please check the referenced interface description document for the complete list of all available data points and the description of the data formats.

The second table lists supported interfaces and available data per product category.

- (x) and (…) refer to capabilities which depend on a specific variant or configuration of the device.
  Please check the datasheet for further information.
- Only data in scope of the regulation are listed and generalized terms are applied.
  Please check the interface descriptions for the respective product for the complete list of all available data points.

Further information

For information on how Belimo protects your personal data see our Privacy Policy.

If you have any questions, please contact: Digital Product Compliance EMEA

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Interfaces/Protocols/Services supported		**Estimated Volume**
Belimo MP-Bus	Availability of data depends on the MP-Client device in use. Check documentation of MP-Client device. Full MP-Bus Specification is available for interested parties --> Belimo DES Partner See document "MP-Bus Data-Pool Values" for full set of available data www.belimo.com → Products → [ThisProduct] → Section "System Integration"	Volume depends on network configuration
Modbus RTU Modbus TCP	Data can be accessed using Modbus clients See document "Modbus Interface Description" for full set of available data www.belimo.com → Products → [This Product] → Section "System Integration"	Volume depends on network configuration
BACnet MS/TP BACnet IP	Data can be accessed using BACnet Clients See document "BACnet Interface Description" for full set of available data www.belimo.com → Products → [ThisProduct] → Section "System Integration"	Volume depends on network configuration
KNX	Data can be accessed using KNX devices See document "Technical Data sheet" for full set of available data www.belimo.com → Products → [ThisProduct] → Section "Documentation" For KNX product database: www.belimo.com → Products → [ThisProduct] → Section "System Integration"	Volume depends on network configuration
M-Bus	Data can be accessed using M-Bus Clients See document "M-Bus Interface Description" for full set of available data www.belimo.com → Products → [ThisProduct] → Section "System Integration"	Volume depends on network configuration
NFC	The NFC (Near Field Communication) interface on Belimo devices enables quick and easy configuration, operation, and troubleshooting of devices using the free Belimo Assistant 2. Data access via NFC is possible via Belimo Assistant 2 only. For more information see: Tool: https://www.belimo.com/ch/en_GB/digital-ecosystem/assistant NFC FAQs: https://www.belimo.com/mam/corporate-communications/iot/belimo_FAQ-NFC_en-gb.pdf	Upon human-initiated tool interaction only

Interfaces/Protocols/Services supported		**Estimated Volume**
Web Server	Data can be accessed using Web Browsers Clients See document "Web Server Manual" for further information www.belimo.com → Products → [ThisProduct] → Section "Documentation"	Volume depends on network configuration
Restful API	This HTTP API is based on REST paradigm and uses JSON for data transfer. The interface is accessible via the following HTTP: URL: http://IPaddressEnergyValve:80/api/v1/datapoints (e.g. http://192.168.0.10:80/api/v1/datapoints)	Volume depends on REST Client configuration
Belimo Cloud (Client API)	The standard way to access the Digital Twin of a Belimo product is the cloud frontend: cloud.belimo.com For more information on Privacy and Terms of Use for Belimo Cloud Privacy Policy, Terms of Use for Belimo Cloud Cloud Connection Guide: https://www.belimo.com/mam/europe/technical-documentation/technical-leaflets/belimo_applications/belimo_guide_cloud-connection_en-gb.pdf In addition, the Belimo Cloud Client-API serves as communication between business (web) applications and the Belimo Cloud and its Digital Twins. For more information: https://cloud.belimo.com/apidocs/clientapi-v3-guide.html See Terms of Use for Belimo Cloud / Data Protection Statement for further details.	Volume depends on the update rate of the digital twin. Field devices with permanent uplink generate data volume between 32 MB/day (Thermal Energy Meter) and 45 MB (Energy Valve V4). Field devices with temporary connection generate data volume upon human-initiated tool interaction only.

Connected Product		Interface/Protocol (Format)										Data (obtained, generated, collected)		
Product Category	**Market Descriptions**	**MP-Bus**	**Modbus**	**BACnet**	**KNX**	**M-Bus**	**NFC**	**Web Server**	**Rest API**	**Belimo Cloud**	**BLE/USB**	**Datatype**	**Data generation**	**Storage (unless indicated otherwise, only current real-time values)**
Non-bus-capable actuators (powered with M600)	GM230						x					Setpoint Position Health Status	continuously, in real-time	On device: Health Status On cloud: No
MP-capable O/C actuators (powered with M600)	GM24	x					x					Setpoint Position Health Status	continuously, in real-time	On device: Health Status On cloud: No
MP-capable SR actuators (powered with M600)	..24SR ..24-SR ..24A-SR	x					(x)					Setpoint Position (Sensor Value Y3) Health Status	continuously, in real-time	On device: Health Status On cloud: No
MPL actuators (powered with HalD)	CM24-MPL CQ24A-MPL	x										Setpoint Position Health Status	continuously, in real-time	On device: Health Status On cloud: No
MPL actuators (powered with M600)	CM24-MPL CQ24A-MPL	x										Setpoint Position (Sensor Value Y3) Health Status	continuously, in real-time	On device: Health Status On cloud: No
MF actuators (based on MFT NG)		(x)										Setpoint Position Health Status	continuously, in real-time	On device: Health Status On cloud: No
MP actuators (based on MFT NG)	..24A-MP ..V-D3-MP EP...F+MOD	x					(x)					Setpoint Position (Sensor Value Y3) (Volumetric Flow) Health Status	continuously, in real-time	On device: Health Status On cloud: No

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Modbus/BACnet actuators (based on MFT NG)	..24A-MOD ..24A-M/B ..V-D3-MOD ..V-D3-M/B EP…F+MOD	x	x	x								Setpoint Position (Sensor Value Y3) (Volumetric Flow) Health Status	continuously, in real-time	On device: Health Status On cloud: No
KNX actuators (based on MFT NG)	..24A-KNX ..V-D3-KNX	x			x							Setpoint Position (Sensor Value Y3) (Volumetric Flow) Health Status	continuously, in real-time	On device: Health Status On cloud: No
VAV-Universal	VRU-xx-BAC	x	x	x			x					Setpoint Position Volumetric Flow (Sensor Value) Differential Pressure Health Status	continuously, in real-time	On device: Health Status On cloud: No
EPIV 2-way	EP...R2+BAC	x	x	x			x					Setpoint Position Volumetric Flow Sensor Value Y3 Setpoint Absolut Volumetric Flow Temperature (flow body) Glycol Concentration Accumulated Volume Health Status	continuously, in real-time	On device: Accumulated Volume, Health Status On cloud: Upon tool interaction only

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EPIV 6-way	EP…R6+BAC	x	x	x			x					Setpoint Seq1/Seq Position Volumetric Flow Sensor Value Y3 Setpoint Absolut Volumetric Flow Temperature (flow body) Glycol Concentration Accumulated Volume Actual Sequence (Relative Humdity) (Condensation Protection Status) Health Status	continuously, in real-time	On device: Accumulated Volume, Health Status On cloud: Upon tool interaction only
EnergyValve V3	EV..F+BAC	x	x	x				x	x	x		Setpoint Position Volumetric Flow Setpoint Absolut Volumetric Flow Temperature 1/2 Delta Temperature Gylcol Concentration Relative Power Absolute Power (Accumulated Volume) Absolute Energy Cooling/Heating DeltaT Manager Status Health Status	continuously, in real-time	On device: Data logging on device with short-term and long-term storage, accessible via web server. Short-term: 31 days, interval 30 s Long-term: 13 months, interval 2 h On cloud: Depending on connection type (temporary/permanent)

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Product Category	**Market Descriptions**	**MP-Bus**	**Modbus**	**BACnet**	**KNX**	**M-Bus**	**NFC**	**Web Server**	**Rest API**	**Belimo Cloud**	**BLE/USB**	**Datatype**	**Data generation**	**Storage (unless indicated otherwise, only current real-time values)**
EnergyValve V4	EV..R2+BAC	x	x	x		(x)	x	x	x	x		Setpoint Position Volumetric Flow Sensor Value Y3 Setpoint Absolut Volumetric Flow Temperature 1/2 Delta Temperature Gylcol Concentration Relative Power Absolute Power Cooling/Heating (Relative Differential Water Pressure) (Absolute Differential Water Pressure) Accumulated Volume Absolute Energy Cooling/Heating DeltaT Manager Status Health Status Cloud only: (MID enabled)	continuously, in real-time	On device: Data logging on device with short-term and long-term storage, accessible via web server. Short-term: 31 days, interval 30 s Long-term: 13 months, interval 2 h On cloud: Depending on connection type (temporary/permanent)
Flow Meter	22PF	x	x	x			x					Volumetric Flow Sensor Value Y3 Temperature (flow body) Glycol Concentration Total Volume Health Status	continuously, in real-time	On device: Total Volume, Health Status On cloud: Upon tool interaction only

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Product Category	**Market Descriptions**	**MP-Bus**	**Modbus**	**BACnet**	**KNX**	**M-Bus**	**NFC**	**Web Server**	**Rest API**	**Belimo Cloud**	**BLE/USB**	**Datatype**	**Data generation**	**Storage (unless indicated otherwise, only current real-time values)**
Thermal Energy Meter	22PEM 22PE	x	x	x		(x)	x	x	x	x		Volumetric Flow Sensor Value Y3 Temperature 1/2 Delta Temperature Gylcol Concentration Absolute Power Cooling/Heating Volume Energy Cooling/Heating Health Status Cloud only: (MID enabled)	continuously, in real-time	On device: Data logging on device with short-term and long-term storage, accessible via web server. Short-term: 31 days, interval 30 s Long-term: 13 months, interval 2 h On cloud: Depending on connection type (temporary/permanent)
Room units MP-only	22RT..-18 P-22RT..-19	x					x					Room Temperature (Relative Humidty) (CO2-Value Room) (Dew Point Temperature) (Air Quality Status) Digital Input Room/Zone Temperature Setpoint Ventilation Stage System Operation Mode Health Status	continuously, in real-time	On device: Health Status On cloud: No
Room units MOD/BAC	P-22RT..-1U	x	x	x			x					Room Temperature (Relative Humidty) (CO2-Value Room) (Dew Point Temperature) (Air Quality Status) Digital Input Room/Zone Temperature Setpoint Ventilation Stage System Operation Mode	continuously, in real-time	On device: Health Status On cloud: No

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Product Category	**Market Descriptions**	**MP-Bus**	**Modbus**	**BACnet**	**KNX**	**M-Bus**	**NFC**	**Web Server**	**Rest API**	**Belimo Cloud**	**BLE/USB**	**Datatype**	**Data generation**	**Storage (unless indicated otherwise, only current real-time values)**
ADP sensor	22ADP-15/16		x	x							x	Differential Pressure 1/2 Volumetric Flow 1/2 Input 1/2 Sensor Detection	continuously, in real-time	On device: Health Status On cloud: No
Air quality sensors (Duct/Outdoor	22UTH-15/16 22DT..-15/16		x	x							x	Temperature Relative Humidity Absolute Humidity Enthalpy Dew Point CO2 VOC CO2 VOC Mix Sensor Detection	continuously, in real-time	On device: Health Status On cloud: No
MP-Gateways	UK24BAC UK24MOD		x	x								8x Setpoint 8x Position 8x Volumetric Flow 8x Sensor 8x Health Status	continuously, cycle time on MP bus approx. 10s	On device: No On cloud: No