

Box System Data & Cloud Configuration and Data



EU Data sharing information

On 11 January 2024, the EU Data Act, a central component of the European data strategy, entered into force.

The following information gives you an overview of the data of our products and which are available to you.

1 Box System Data

TYPE, FORMAT, AND ESTIMATED AMOUNT OF PRODUCT DATA THAT CAN BE GENERATED

Data type	Data format	Estimated size
Event data	Json	Depends on customer installation and events
Latest data points (input and output)	Binary	Latest data for each gateway
Communication configuration (fieldbus, gateways, ...)	Binary	Size according to customer's project
Internal device diagnostic information (CPU, RAM usage)	Json	A few KB per day
Logs	syslog	Up to 64 MB according to the device types

Continuous and real-time data generation

The Box system can generate data continuously and in real time. The Data collection is continuous throughout operation. The CPU works with defined cycle times in which process data is recorded and processed.

- Building automation networks are processed during normal system operation continuously. Such data are ephemeral and only the latest information is kept in the system.
- Events, updates to peripheral devices, and actuations can occur spontaneously during normal system operation.

DATA STORAGE AND STORAGE PERIOD

Local data storage

The Box stores data in integrated memory areas of the CPU or cloud services (depending on application/setup).

Local Data Storage	Capacities	Storage Duration
Firmware	Up to 256 MB	Persistent (permanent)
Application code	Up to 128 MB	Persistent (permanent)
Application data and configuration	Up to 100 MB	In RAM and Persistent
Internal device diagnostic information (CPU, RAM usage)	Json	In RAM for live transmission to cloud
Logs	Up to 64 MB	In RAM and Persistent (permanent)

Remote data storage

Data transmission to external systems is possible via various communication interfaces, e.g. BACnet, Modbus, MQTT, Wattsense Cloud connection, ...

The Box systems can send data to various remote systems, e.g. BMS systems, cloud platforms (Wattsense). The storage period on external systems depends on the configuration of the respective system.

ACCESS / RETRIEVAL, DELETION OF DATA, TERMS OF USE AND QUALITY OF SERVICE

Type of data	Access/retrieval via	Terms of Use	Quality of Service*
Latest data points (input and output)	BMS System Wattsense platform	Only accessible by local BMS systems	Latest data points (input and output)
Communication configuration (fieldbus, gateways, ...)	Wattsense platform	Available to access/delete through user cloud web interface or API	Communication configuration (fieldbus, gateways, ...)
Sensitive configuration (keys for MQTT TLS, python plugin)	Wattsense platform	Available to access/delete through user cloud web interface or API	Sensitive configuration (keys for MQTT TLS, python plugin)

Deletion of data

- Configurations can be deleted by the user from the cloud web interface or API.
- Locally stored data on the Box data stores such as latest operational datapoints can be deleted by reaching out to support team.

2 Cloud Configuration and Data

TYPE, FORMAT, AND ESTIMATED AMOUNT OF PRODUCT DATA THAT CAN BE GENERATED

Data type	Data format	Estimated size
Device configuration	Json	Depends on user setup
Organization and user information	Json	Depends on user setup
Supervision configuration and data (graphs, dashboards, alarms)	Json	Depends on user setup
Equipment operational data (inputs, outputs)	Json	Depends on user setup
Internal device diagnostic information (CPU, RAM usage)	Json	A few KB per day

Data generation

These settings and data are configured by the user.

DATA STORAGE AND STORAGE PERIOD

Local data storage

The Wattsense Cloud stores configuration and data in its encrypted database. Configuration of various features is managed by the user whereas operational datapoints are stored whenever the Box sends them.

Local Data Storage	Capacities	Storage Duration
All information above	No predefined limits since depends on user	Until user requests

ACCESS / RETRIEVAL, DELETION OF DATA, TERMS OF USE AND QUALITY OF SERVICE

Type of data	Access/retrieval via	Terms of Use
- Organization/user - Supervision configuration - Device configuration	Wattsense platform	Available to access/delete through user cloud web interface or API
Sensitive credentials (X501 keys/certificate, plugin code)	Wattsense platform	Available to access/delete through user cloud web interface or API
Equipment operational data (inputs, outputs)	Wattsense platform	Available to access through user cloud web interface or API
Internal device diagnostic data (CPU, RAM usage, ...)	Wattsense platform	Provides internal insights into FW. Only for internal diagnostic purpose

Deletion of data

- Configuration: User can delete such configuration in the cloud
- Equipment operational data and internal data: Shall be requested to support team