

Building Peripheral Device 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.

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

- KNX Switch Actuators
- KNX Dimming Controllers
- KNX Room Controllers
- KNX Sensors
- KNX Gateways

Data type	Data format	Estimated size
Device Configuration Data (e.g. Parameters, group addresses, settings)	In respective bus protocol format*	Varies by application and configuration
Operational Data (e.g. Switching states, dimming values, temperature readings)	In respective bus protocol format*	Varies by application and configuration
System Events (e.g. Error messages, status notifications)	In respective bus protocol format*	Varies by application and configuration

*KNX, KNX IoT, BACnet, DALI

For detailed list of data points, please refer to the respective product datasheet.

Continuous and real-time data generation

The devices can generate data continuously and in real time. The Data collection is continuous throughout operation by the KNX system and depends on the system configuration.

The Microcontroller in the devices works with defined cycle times in which process data is recorded and processed.

- KNX device network data are processed during normal system operation continuously. Such data is ephemeral and only the latest information is kept in the device accessible through the bus interface.
- Events (alarms), updates to peripheral devices, and actuations can occur spontaneously during normal system operation.

DATA STORAGE AND STORAGE PERIOD

Local data storage

All data is primarily stored locally within the KNX devices. No data is transmitted to Siemens servers or third parties by default unless explicitly configured.

Local Data Storage	Capacities	Storage Duration
Firmware	A few KB to a few MB	Persistent (permanent)
Runtime Data (e.g. Switching states, Sensor readings, System events)	Few KB to a few MB, when available	In RAM (non permanent) and Persistent (permanent)

For more information on memory areas, remanence, and memory usage, see the data sheet and user manual.

Remote data storage

No data is transmitted to Siemens servers, third parties or other external systems by default unless explicitly configured.

Data transmission to external systems is possible via various communication interfaces, e.g. BACnet, DALI, BuildingX Cloud connection, ...

The storage period on external systems depends on the configuration of the respective system.

Type of data	Access/retrieval via	Terms of Use	Quality of Service*
Process data (input and output)	-Field bus interface* -ETS (Engineering Tool Software) interface	Field bus access according to the bus specification	-Prioritization of control-tasks versus data access -Encrypted data transmission configuration when available (HTTPS, TLS)
Configuration data and control program	-Field bus interface* -ETS (Engineering Tool Software) interface -Device-specific configuration tools	Field bus access according to the bus specification	-Prioritization of control-tasks versus data access -Encrypted data transmission configuration when available (HTTPS, TLS)
Logs	-Field bus interface* -ETS (Engineering Tool Software) interface	Field bus access according to the bus specification	-Encrypted data transmission configuration when available (HTTPS, TLS)

* "Quality of Service" refers to the ability of the peripheral devices to efficiently manage network resources and ensure that certain performance requirements are met during data transmission.

Deletion of data

Performing a factory reset via device interface or ETS, deletes all made configuration changes and if available saved data.

Reconfigure the device will delete the previous configurations.

Learn more

For more information on deleting data, see the manual for the device or the ETS manual.