

SINAMICS

SINAMICS generatable data

Product Information

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

DANGER

indicates that death or severe personal injury will result if proper precautions are not taken.
--

WARNING
--

indicates that death or severe personal injury may result if proper precautions are not taken.

CAUTION
--

indicates that minor personal injury can result if proper precautions are not taken.
--

NOTICE

indicates that property damage can result if proper precautions are not taken.
--

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified persons are those who, because of their training and experience, are familiar with the installation, assembly, commissioning, operation, decommissioning and disassembly of the product and can recognize risks and avoid possible hazards.

Proper use of Siemens products

Note the following:

WARNING
--

Siemens products may only be used for the application described in the catalog and the associated usage information. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.
--

Trademarks

All names identified by ® are registered trademarks of Siemens Aktiengesellschaft. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

SINAMICS data

The EU Data Act, a key component of the European data strategy, entered into force on 11 January 2024.

The following information provides you with an overview of the data generated by the SINAMICS product brand devices that is accessible to you. The actual amount of product data that can be generated may be smaller depending on the device.

Data of the devices

Type, format, and estimated scope of data that the product is capable of generating

Type of data	Formats	Estimated scope
Process data (e.g. input and output data, parameters, statuses, alarms)	Numeric formats, binary formats	Cyclic processing Depending on application
Parameters, configuration and program data	Numeric formats, binary formats, string formats	Depending on application
Diagnostic data, system and security events, service data	Time formats, string formats, binary formats	Depending on application Several hundred bytes per event
Operating data (e.g. runtimes, cycle times, drive utilization)	Numeric formats, time formats	Depending on application
Log data	Time formats, string formats	Depending on application

Continuous and real-time data generation

The SINAMICS product brand devices are able to generate data continuously and in real time. Data acquisition takes place continuously throughout the entire operation. The devices operate with defined cycle times during which process data is collected, processed and made available.

Data storage, storage capacities and storage duration

Local data storage

SINAMICS product brand devices store data in integrated memory areas and on removable data media.

Local data storage	Storage capacity	Storage duration
Removable storage device	Up to 32 GB depending on the data carrier	Permanent
Data work memory	Up to 1.1 GB depending on the device	During operation
Retentive memory	Up to 4 GB depending on the device	Permanent

Remote data storage

Data transmission to external systems is possible via various communications interfaces, e.g. PROFINET or Industrial Ethernet.

The devices can send data to various remote systems, e.g. PLC or Edge.

Some devices can send logging data as syslog messages to a SIEM system, for example.

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

The devices can be integrated into the Siemens Industrial Edge concept as a data source.

Access/retrieval of data and terms of use

Type of data	Access/retrieval via ¹⁾	Terms of use
Process data (e.g. input and output data, parameters, statuses, alarms)	TIA Portal Web server OPC UA HMI/SCADA systems Device display PLC	Access can be partially restricted by user-defined settings. Device-specific: - User management - Authentication - Certificates
Parameters, configuration and program data	TIA Portal Web server OPC UA HMI/SCADA systems Device display PLC	Access can be partially restricted by user-defined settings. Device-specific: - User management - Authentication - Certificates
Diagnostic data, system and security events, service data	TIA Portal Web server Device display Syslog server PLC	Access can be partially restricted by user-defined settings. Device-specific: - User management - Authentication - Certificates

Type of data	Access/retrieval via ¹⁾	Terms of use
Operating data (e.g. runtimes, cycle times, drive utilization)	TIA Portal Web server HMI/SCADA systems Device display PLC	Access can be partially restricted by user-defined settings. Device-specific: • User management • Authentication • Certificates
Log data	TIA Portal	Access can be partially restricted by user-defined settings. Device-specific: • User management • Authentication • Certificates

¹⁾ The access options listed are examples. From the point of view of the SINAMICS product brand devices, access to the respective data can be made via various protocols. These are listed in the respective product documentation.

"Quality of Service"

When accessing or retrieving the data, it should be noted that cyclic fieldbus communication has a higher priority.

Deleting data

To delete all data from the data storage, the "Factory reset" function is available. More information can be found in the respective product documentation.