

IO-Link® master USB

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Datum

13.04.2026

Unser Zeichen

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The IO-Link® master USB from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Parameterization of IO-Link devices and monitoring of process data	Master V1.0, Master V1.1	Via IO-Link Master: Process Data Width IN: configurable 0 - 32 bytes Transmission Rate: COM1 (4.8 kBaud), COM2 (38.4 kBaud), COM3 (230.4 kBaud) Product data is updated cyclically, shortest cycle time: 1.5 ms (depending on the port configuration, the cycle time may be extended)
Configuration and Parameterization		
Diagnostic data, system events, maintenance information		

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

Data Storage Type	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	
Diagnostic data, system events, maintenance information	

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure sensor.

Valve Terminal CPV-...

Product Information on Regulation (EU) 2023/2854 for Connected Products (Information pursuant to Article 3(2))

- Note

Product-specific details are available in the corresponding user documentation (catalogues, data sheets, operating instructions, and general operating conditions) on the respective [product pages](#) on the Internet.

Date

2026-08-13

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Nature, Format and Estimated Volume of Product Data¹ Information pursuant to Article 3(2), points (a) and (b)

The CPV-... valve terminal family from Festo in the IO-Link or fieldbus version generates various product data during operation for functionality, monitoring, and diagnostic purposes. The type and volume of product data depend on the product type, configuration, and specific application.

Data	Type of data	Scope Cycle time or frequency
Process or Operating Data Depending on the configuration: varying numbers of digital inputs, digital outputs, and outputs for the valve solenoids	Byte	Process data width IN - up to 2 bytes Valve solenoid process data width - up to 2 bytes
Configuration and Parameters	Via IO-Link master or PLC (1 to n bytes)	On-demand data: dependent on the requested event
Diagnostic data, system events, and maintenance information	Via IO-Link master or PLC (1 to n bytes) or via LED indication	On-demand data: dependent on the current event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, a physical connection, or on-device access, by a user, data holder, or a third party, including, where relevant, the manufacturer (Article 2, point (15)).

Data Storage and Data Retention

Information pursuant to Article 3(2), point (c)

The CPV-... valve terminal family from Festo in the IO-Link version enables product data generated by the device to be retrieved by external devices.

The CPV valve terminal family is not capable of storing product data directly on an external device or on a remote server.

CPV	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	Persistent, overwritable
Diagnostic Data	Limited to operational use Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only² Application / function / installation location (device location information can be configured by the customer)

² The CPV-... valve terminal family from Festo does not have an integrated error log. This functionality is partially provided by IO-Link masters or the PLC.

Furthermore, switching cycle counters are not integrated in this version.

Access, Retrieval and Deletion of Product Data

Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The input and output data are managed via IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
Configuration and Parameter	IO-Link master or PLC	Restore factory settings within the network by intentionally overwriting the configuration using IO-Link-Master
Limited to operational use Diagnostic data	IO-Link master or PLC	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	Not available	

Parallel Gripper HPPH

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Date

May 18th, 2026

Related Products

- Parallel Gripper HPPH-16-16-NC-N-R12 (8171873)
- Parallel Gripper HPPH-16-16-NC-N-SR12 (8205392)
- Parallel Gripper HPPH-16-16-NC-P-R12 (8171874)
- Parallel Gripper HPPH-16-16-NC-P-SR12 (8205393)

Our Reference

Note

- The product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages](#) on the internet.
- The parallel gripper HPPH contains a Festo position transmitter SDAS-MHS. Corresponding product information regarding Regulation (EU) 2023/2854 on data for connected products (information pursuant to Art. 3(2)) for the position transmitter SDAS-MHS is available on the respective [product pages](#) on the internet.

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Energy efficiency module MSE6-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

Date

July 23th, 2026

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The MSE6-... energy efficiency modules from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Output pressure	Via Display	Continuous
Process data (input and output data) (see Operating instructions)	Via fieldbus interface Via service interface	Cyclical (dependent on SPS)
Configuration and Parameterization	Via fieldbus interface Via service interface	On-demand data: dependent on the requested data
Diagnostic data, system events, maintenance information	Via Display Via fieldbus interface Via service interface	On-demand data: dependent on the requested data

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The MSE6-... energy efficiency module is equipped with fieldbus interface and digital inputs and outputs, which allows external devices to retrieve the generated product data. The energy efficiency module itself is not capable of storing product data on an external device or a remote server.

Data Storage in Energy Efficiency Module MSE6	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwritable
Diagnostic data, system events, maintenance information	Permanent, overwritable

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Via fieldbus interface Via service interface
Configuration and parameterization	Via fieldbus interface Via service interface
Diagnostic data, system events, maintenance information	Via Display Via fieldbus interface Via service interface

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the energy efficiency module.

OVEM-... – Vacuum Generator

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Date

May 4th, 2026

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

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Type, Format, and Estimated Volume of Product Data¹

Information according to Art. 3 para. 2 a) and b)

The OVEM-...-LK-... vacuum generator from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Continuously recorded process data (relative pressure –1...0 bar in the vacuum circuit). Status and monitoring data (switching states, diagnostic/fault states). Configuration and parameterization data (switching points, hysteresis, display unit, IO-Link parameters, IODD). Identification data (manufacturer, device ID, device profile, static performance data).	Cyclical IO-Link process data: 2 bytes IN (14-bit pressure measurement, 2-bit status), 1 byte OUT (control bits vacuum/release). IO-Link protocol V1.1, COM2 (38.4 kBaud), Port Class A, data memory 0.5 kByte. Local signals: digital inputs/outputs via M12 connector (24 V DC), display via 4-digit LCD in bar.	Process data size: 3 bytes per cycle (excluding protocol overhead). Minimum IO-Link cycle time: 3.5 ms (max. approx. 285 measurements per second). Typical application: cycle times in the range of 5–10 ms (100–200 measurements per second). Parameter and diagnostic values are transmitted only on event or on demand.

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The OVEM-...-LK-... vacuum generator is equipped with IO-Link, which allows external devices to retrieve the generated product data. The flow sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in OVEM-...-LK-... Vacuum Generator	Duration of Retention
Process or measurement data	The most recent data are stored only for the duration of operation; the CPU continuously overwrites them (IO-Link cycle time 3.5 ms).
Configuration and parameters (ISDU)	Permanent, overwriteable Stored in the internal non-volatile memory (EEPROM/Flash). They remain preserved across power cycles until they are: - actively changed (reparametrized) or - overwritten by a reset/factory reset. There is no automatic deletion period; the retention time corresponds to the lifetime of the device or the lifetime of the storage medium.
Diagnostic data, system events, maintenance information	Limited to operation (only the current measured value, no history)

Information on resetting permanently stored product data, for example resetting to factory settings, is provided in the operating instructions for the vacuum generator.

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Via IO-Link Master Tools of the used control system
Configuration and parameterization	Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the flow sensor.

Flow Sensor SFAB-...-PNLK

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

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Date

April 04th, 2026

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Type, Format, and Estimated Volume of Product Data¹

Information according to Art. 3 para. 2 a) and b)

The SPAN-...-PNLK flow sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Flow rate, volume and temperature of gaseous media	Via Display Via IO-Link Master: IO-Link, Device V1.1 Smart Sensor - SSP 4.1.2	Process Data Width IN: 64 bits Process Data Content IN: • 2 bit SSC (flow monitoring) • 1 bit SSC (volume pulse) • 16 bit MDC (flow measurement value) • 2 bit SSC (temperature monitoring) • 16 bit MDC (temperature measurement value) COM3 (230,4 kBaud) Product data are updated cyclically, with a shortest cycle time of 1.2 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume
		Cycle time respectively frequency
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data
Diagnostic data, system events, maintenance information	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The SFAB-...-PNLK flow sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The flow sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Flow Sensor SFAB	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the flow sensor.

Flow Sensor SFAE-...-PNLK

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

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Type, Format, and Estimated Volume of Product Data¹

Information according to Art. 3 para. 2 a) and b)

The SFAE-...-PNLK flow sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Flow rate and volume of gaseous media	Via Display Via IO-Link Master: IO-Link, Device V1.1 Smart Sensor Profile SSP 4.1.1	Process Data Width IN: 32 bits Process Data Content IN: • 2 bit SSC (flow monitoring) • 1 bit SSC (volume pulse) • 16 bit MDC (flow measurement value) COM3 (230.4 kBaud) Product data are updated cyclically, with a shortest cycle time of 0.7 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data
Diagnostic data, system events,	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
maintenance information		

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

The SFAE-...-PNLK flow sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The flow sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Flow Sensor SFAE	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the flow sensor.

Flow Sensor SFAH-...-PNLK

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Type, Format, and Estimated Volume of Product Data¹

Information according to Art. 3 para. 2 a) and b)

The SFAH-...-PNLK flow sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Flow rate of gaseous media	Via Display Via IO-Link Master: IO-Link, Device V1.1 Smart Sensor Profile Binary Data Channel (BDC) Process Data Variable (PDV) Identification Diagnostics Teach Channel	Process Data Width IN: 24 bits Process Data Content IN: 2-bit BDC (flow monitoring) 14-bit PDV (flow measurement value) COM2 (38.4 kBaud) Product data are updated cyclically, with a shortest cycle time of 4 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data
Diagnostic data, system events, maintenance information	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The SFAH-...-PNLK flow sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The flow sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Flow Sensor SFAH	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the flow sensor.

Flow Sensor SFAM-...-PNLK

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

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Type of Data	Format	Volume Cycle time respectively frequency
Flow rate, volume, pressure and temperature of gaseous media	Via Display Via IO-Link Master: IO-Link, Device V1.1 Smart Sensor - SSP 4.1.3	Process Data Width IN: 96 bits Process Data Content IN: • 16 bit MDC (flow measurement value) • 2 bit SSC (flow monitoring) • 1 bit SSC (volume pulse) • 1 bit SSC (monitoring of average flow) • 1 bit SSC (monitoring of peak flow) • 1 bit SSC (time monitoring of the active-static operating state) • 1 bit SSC (corrupt reference record) • 2 bit SSC (Temperature monitoring) • 16 bit MDC (Temperature measurement value)

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Type of Data	Format	Volume Cycle time respectively frequency
		• 4 bit (current operating state) • 16 bit MDC (pressure measurement value) • 2 bit SSC (pressure monitoring) • 1 bit SSC (monitoring of pressure drop at average flow) • 1 bit SSC (monitoring of pressure drop at peak flow) • 1 bit SSC (monitoring of pressure stability in passive operating state) • 1 bit SSC (monitoring of pressure stability in active operating state) COM3 (230.4 kBaud) Product data are updated cyclically, with a shortest cycle time of 1.5 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data
Diagnostic data, system events, maintenance information	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The SFAM-...-PNLK flow sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The flow sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Flow Sensor SFAM	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwritable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data

Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the flow sensor.



Pressure Sensor SFAW-...-PNLK

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

Date

April 20th, 2026

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Type, Format, and Estimated Volume of Product Data¹

Information according to Art. 3 para. 2 a) and b)

The SFAW-...-PNLK flow sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Flow rate, volume and temperature of liquid media	Via Display Via IO-Link Master: IO-Link, Device V1.1 Smart Sensor Profile Binary Data Channel (BDC) Process Data Variable (PDV) Identification Diagnostics Teach Channel	Process Data Width IN: 24 bits / 40 bits (SFAW-..T) Process Data Content IN: • 2-bit BDC (flow monitoring) • 1-bit BDC (temperature monitoring) • 1-bit BDC (volume pulse) • 14-bit PDV (flow measurement value) • 14-bit PDV (temperature measurement value) COM2 (38.4 kBaud) Product data are updated cyclically, with a shortest cycle time of 5 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume
		Cycle time respectively frequency
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data
Diagnostic data, system events, maintenance information	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The SFAW-...-PNLK flow sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The flow sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Flow Sensor SFAW	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the flow sensor.

Distance Sensor SOIA-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Datum

13.04.2026

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

Unser Zeichen

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The distance sensor SOIA-... from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Monitoring of elastic, pneumatic and hydraulic damping elements, distance measurement, speed measurement, acceleration measurement	Via IO-Link-Master: IO-Link, Device V1.1, Function Object detection Function Product URI Function Teach two value Identifikation and Diagnose Smart Sensor - SSP 4.1.1	Via IO-Link Master: Process Data Length Input: 32 bit Process data content IN: Distance measurement 16 bit MDC Distance monitoring 2 bit SSC Maintenance warning 1 bit DSC Motion diagnostic 2 bit DSC Transmission Rate: COM2 Product data is updated cyclically, shortest cycle time: 3.2 ms (depending on the port configuration on the IO-Link master, the cycle time may be extended)
Configuration and Parameterization	Via IO-Link Master	On-demand data: dependent on the requested data

Type of Data	Format	Volume Cycle time respectively frequency
Diagnostic data, system events, maintenance information	Via IO-Link-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

The distance sensor SOIA-... is equipped with IO-Link, which allows external devices to retrieve the generated product data. The pressure sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage Type	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Via IO-Link Master Tools of the used control system
Configuration and parameterization	Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Via IO-Link Master Tools of the used control system Non-resettable: Operating hours • Operating time Temperaturmonitor • Overtemperature Operating Hours • Overtemperature Exceed Counter • Maximum Operating Temperature • Minimum Operating Temperature • Device Operating Temperature Powermonitor • Power Cycles • Maximum • Average Uptime • Uptime

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure sensor.

Optoelectronic sensor SOOE-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Datum

13.04.2026

Unser Zeichen

Note

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The optoelectronic sensor SOOE-...from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Object detection	Via IO-Link Master: IO-Link, Device V1.1, Smart Sensor Profile Process Data Variable (PDV) Identification Diagnosis Teach Channel Switching Signal Channel (SSC)	Via IO-Link Master: Process Data Width IN: 1 bit Process data content IN: 1 bit SSC (Switching Signal) Transmission Rate: COM2 (38.4 kBaud) Product data is updated cyclically, shortest cycle time: 2.3 ms (depending on the port configuration on the IO-Link master, the cycle time may be extended)
Configuration and Parameterization	Via IO-Link Master	On-demand data: dependent on the requested data
Diagnostic data, system events, maintenance information	Via IO-Link-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The Optoelectronic sensor SOOE-... is equipped with IO-Link, which allows external devices to retrieve the generated product data. The pressure sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage Type	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Via IO-Link Master Tools of the used control system
Configuration and parameterization	Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Via IO-Link Master Tools of the used control system Non-resettable: Operating hours • Operating time • Temperature Indicator

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure sensor.

Fork light barrier SOOF-M-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Datum

13.04.2026

Unser Zeichen

Note

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The fork light barrier SOOF-M-... from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Interruption between transmitter and receiver	Via IO-Link-Master: IO-Link, Device V1.1, Smart Sensor Profile Binary Data Channel (BDC) Process Data Variable (PDV) Identification Diagnosis Teach Channel	Via IO-Link Master: Process Data Width IN: 2 bytes Process data content IN: 1 bit BDC (Stability) 1 bit BDC (Switching Signal) 12 bit PDV (Signal Level) Transmission Rate: COM2 (38.4 kBaud) Product data is updated cyclically, shortest cycle time: 2.3 ms (depending on the port configuration on the IO-Link master, the cycle time may be extended)
Configuration and Parameterization	Via IO-Link Master	On-demand data: dependent on the requested data
Diagnostic data, system events,	Via IO-Link-Master	On-demand data: dependent on the requested data

Type of Data	Format	Volume Cycle time respectively frequency
maintenance information		

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

The fork light barrier SOOF-M-... is equipped with IO-Link, which allows external devices to retrieve the generated product data. The pressure sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage Type	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Via IO-Link Master Tools of the used control system
Configuration and parameterization	Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure sensor.

Air Gap Sensor SOPA-...-PNLK

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The SOPA-...-PNLK air gap sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Distance monitoring	Via Display Via IO-Link Master: IO-Link, Device V1.1 Smart Sensor Profile Binary Data Channel (BDC) Process Data Variable (PDV) Identification Diagnostics Teach Channel	Process Data Width IN: 2 bytes Process Data Content IN: 2-bit BDC (distance monitoring) 1-bit BDC (supply pressure monitoring) 10-bit PDV (distance) COM2 (38.4 kBaud) Product data are updated cyclically, with a shortest cycle time of 3 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
Diagnostic data, system events, maintenance information	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

The SOPA-...-PNLK air gap sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The air gap sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Air Gap Sensor SOPA	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the air gap sensor.

Pressure Sensor SPAE-...-PNLK

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The SPAE-...-PNLK pressure sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Relative pressure with piezoresistive pressure sensor	Via Display Via IO-Link Master: IO-Link, Device V1.1 Smart Sensor Profile Binary Data Channel (BDC) Process Data Variable (PDV) Identification Diagnostics Teach Channel	Process Data Width IN: 2 bytes Process Data Content IN: 2-bit BDC (pressure monitoring) 14-bit PDV (pressure measurement value) COM2 (38.4 kBaud) Product data are updated cyclically, with a shortest cycle time of 3 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
Diagnostic data, system events, maintenance information	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

The SPAE-...-PNLK pressure sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The pressure sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Pressure Sensor SPAE	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure sensor.

Pressure Sensor SPAF-...-PNLK

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

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Type, Format, and Estimated Volume of Product Data¹

Information according to Art. 3 para. 2 a) and b)

The SPAF-...-PNLK pressure sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Relative pressure with piezoresistive pressure sensor	Via Display Via IO-Link Master: IO-Link, Device V1.1 Smart Sensor Profile SSP 4.1.1	Process Data Width IN: 32 bits Process Data Content IN: 2 bit SSC (Drucküberwachung) 16 bit MDC (Druckmesswert) COM3 (230.4 kBaud) Product data are updated cyclically, with a shortest cycle time of 0.7 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data
Diagnostic data, system events,	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
maintenance information		

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

The SPAF-...-PNLK pressure sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The pressure sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Pressure Sensor SPAF	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure sensor.



Pressure Sensor SPAN-...-PNLK

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The SPAN-...-PNLK pressure sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Relative pressure with piezoresistive pressure sensor	IO-Link, Device V1.1 Smart Sensor Profile Binary Data Channel (BDC) Process Data Variable (PDV) Identification Diagnostics Teach Channel	Process Data Width IN: 2 bytes Process Data Content IN: 2-bit BDC (pressure monitoring) 14-bit PDV (pressure measurement value) COM2 (38.4 kBaud) Product data are updated cyclically, with a shortest cycle time of 2.3 ms (depending on parameters, transmitted data, and application, the cycle time may be longer)
Configuration and Parameterization	Via Display Via IO-Link Master	On-demand data: dependent on the requested data

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
Diagnostic data, system events, maintenance information	Via Display Via IO-Link-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

The SPAN-...-PNLK pressure sensor is equipped with IO-Link, which allows external devices to retrieve the generated product data. The pressure sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Pressure Sensor SPAN	Duration of Retention
Process or measurement data	Limited to operation (cyclic storage)
Configuration and parameters	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Display Via IO-Link Master Tools of the used control system
Process data (statuses, alarms)	Display Via IO-Link Master Tools of the used control system
Configuration and parameterization	Display Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information	Display Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure sensor.



Pressure control valve VEAA-...-LK-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

Date

April 14th, 2026

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The VEAA-...-LK pressure sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
- Process data width IN, OUT (current relative pressure with an integrated pressure sensor) - Identification - Diagnostic data - Configuration and parameters (ISDU) - Binary data channel (BDC) (included from firmware revision V1.x.x onwards)	IO-Link, Device V1.1, - Process data OUTPUT (integer 16-bit) - Process data INPUT (integer 16-bit) - Tags (32 chars) - ISDU (integer 8-bit – integer 32-bit) - Binary data of various lengths	Process Data Width IN 16-bit integer (T16) via IO-Link process data (each transmission of input/output) - ISDU / identification / locator / diagnostic data is transmitted as required - COM3 (230400 baud) Product data are updated cyclically, minimum cycle time: 0.5 ms (depending on parameters, transmitted data and application, the cycle time may increase)

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
System events (locator function via LED) Maintenance information	Via IO-Link master	On-demand data: depending on the requested data

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The pressure control valve VEAA-...-LK is equipped with IO-Link, which allows external devices to retrieve the generated product data. The pressure sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Pressure Sensor SPAN	Duration of Retention
Process or measurement data	The latest data are stored limited to the operation; the CPU continuously overwrites them.
Configuration and parameters (ISDU)	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation
Maximum temperature (CPU temperature)	Permanent, automatically overwritten when a new maximum temperature is reached
Switching cycle counter	Permanent, continuously overwritten, resettable

Information on resetting permanently stored product data, such as the switching cycle counter, or restoring factory settings can be found in the operating instructions of the pressure control valve.

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Via IO-Link Master Tools of the used control system
Configuration and parameterization (data are stored in the device) Function Tag, Application Tag, Location Tag, etc.?	Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information (events: warning, error, notification)	Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure control valve.



Pressure control valve VEAB-...-LK-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

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Type, Format, and Estimated Volume of Product Data¹

Information according to Art. 3 para. 2 a) and b)

The VEAB-...-LK pressure sensors from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
- Process data width IN, OUT (current relative pressure with an integrated pressure sensor) - Identification - Diagnostic data - Configuration and parameters (ISDU) - Binary data channel (BDC) (included from firmware revision V2.x.x onwards)	IO-Link, Device V1.1, - Process data OUTPUT (integer 16-bit) - Process data INPUT (integer 16-bit) - Tags (32 chars) - ISDU (integer 8-bit – integer 32-bit) - Binary data of various lengths	Process Data Width IN 16-bit integer (T16) via IO-Link process data (each transmission of input/output) - ISDU / identification / locator / diagnostic data is transmitted as required - COM3 (230400 baud) Product data are updated cyclically, minimum cycle time: 0.5 ms (depending on parameters, transmitted data and application, the cycle time may increase)

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
System events (locator function via LED) Maintenance information	Via IO-Link master	On-demand data: depending on the requested data

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The pressure control valve VEAB-...-LK is equipped with IO-Link, which allows external devices to retrieve the generated product data. The pressure sensor itself is not capable of storing product data on an external device or a remote server.

Data Storage in Pressure Sensor SPAN	Duration of Retention
Process or measurement data	The latest data are stored limited to the operation; the CPU continuously overwrites them.
Configuration and parameters (ISDU)	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation
Maximum temperature (CPU temperature)	Permanent, automatically overwritten when a new maximum temperature is reached
Switching cycle counter	Permanent, continuously overwritten, resettable

Information on resetting permanently stored product data, such as the switching cycle counter, or restoring factory settings can be found in the operating instructions of the pressure control valve.

Access to, Retrieval, and Deletion of Product Data

Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Via IO-Link Master Tools of the used control system
Configuration and parameterization (data are stored in the device) Function Tag, Application Tag, Location Tag, etc.?	Via IO-Link Master Tools of the used control system
Diagnostic data, system events, maintenance information (events: warning, error, notification)	Via IO-Link Master Tools of the used control system

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure control valve.

Mass Flow Controller (MFC) VEFC-...-MR-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

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Type, Format, and Estimated Volume of Product Data¹

Information according to Art. 3 para. 2 a) and b)

The VEFC-...-MR-... Mass flow controller (MFC) from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Modbus Registers - Operational data - Identification - Diagnostic data - Configuration und parameters Internal diagnostic data - Error counters	- Input Registers - Holding Registers - Encapsulated Interface Transport (Read Device Identification)	Size 16bit signed & unsigned Integer Values - ASCII String objects Cycle time Frequency defined by Modbus Client. Modbus Server VEFC-...-MR-... provides data upon request. Internal error counters increased on internally specified events.

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The VEFC-...-MR-... Mass flow controller (MFC) is equipped with Modbus RTU, which allows external devices to retrieve the generated product data. VEFC-...-MR-... itself is not capable of storing product data on an external device or a remote server.

Data Storage in Mass Flow Controller VEFC	Duration of Retention
Operational data	Limited to operation (cyclic storage)
Identification	Permanent, not overwritable
Diagnostic data	Permanent, is automatically overwritten in corresponding event (e.g. internal error counter)
Configuration and parameters (e.g. application specific parametrization)	Permanent, overwritable
Configuration and parameters (e.g. internal calibration data)	Permanent, not overwritable

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Operational data	Via Modbus Client
Identification	Via Modbus Client
Diagnostic data	Via Modbus Client Via external operating unit CDSV (limited)
Configuration and parameters ¹⁾	Via Modbus Client Via external operating unit CDSV (limited)

1) Device-Adress can additionally be set and overwritten via DIP-Switches

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of VEFC-...-MR-... . Diagnostic data can't be reset.

Proportional pressure control valve VPPE-...-MR -...

Product information on the Data Regulation (EU) 2023/2854 for connected products (information according to Art. 3 para. 2)

Date

10.10.2025

Note

- The product-specific details are available in the user information (catalogues, data sheets, operating instructions, general conditions of use) on the respective [product pages on the Internet](#) .

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Type, format and estimated scope of product data¹

Information pursuant to Art. 3 para. 2 a) and b)

Festo's VPPE-...-MR pressure regulating valves record various product data during operation, which are intended for functionality, monitoring and diagnostics. The type and scope of product data depend on the type, configuration and specific application.

Type of data	Format	Scope Cycle time or frequency
- Process Data Width IN, OUT (Current Relative Pressure with an Integrated Pressure Sensor) - Identification - Configuration and Parameters	Modbus Master - Process Data OUTPUT (Integer 16bit) - Process Data INPUT (Integer 16bit) - Binary data of different lengths	16-bit Integer (T16) over Modbus-RTU process data (Any transfer of input/output) - Identification / locator / diagnostic data is transmitted if necessary - Device Boudrate (9600 ... 115200 Baud) Product data is updated cyclically, minimum cycle time: 10 ms (depending on parameters, transmitted data and application, the cycle time may be extended)
System Events	About Modbus-Master	On-demand data: depending on the data queried

¹ "Product data" means data generated by the use of a connected product that the manufacturer has designed to be accessed by a user, data holder or third parties, including, where applicable, the manufacturer, via an electronic communications service, a physical connection or an in-device access (Art. 2, paragraph 15).

Data storage and storage period

Information pursuant to Art. 3 para. 2 c)

The pressure regulating valve VPPE-...-MR enables the generated product data to be retrieved by external devices. The pressure control valve is not capable of storing product data on an external device or remote server.

Data storage in the pressure regulating valve VPPE-...-MR	Storage period
Process data	The last data is stored limited to operation, CPU overwrites it continuously
Configuration and Parameters (ISDU)	Permanent, overwritable
diagnostic data, system events,	Limited to operation

For resetting the permanently stored product data, such as the shift counter or for resetting to factory settings, information is contained in the operating instructions of the pressure control valve.

Access, retrieval and deletion of product data

Information pursuant to Art. 3 para. 2 d)

Type of product data	Access
Process data (input and output data)	About Modbus - Master Tools of the control system used
Configuration and parameterization (data is stored in the device) Function Tag, Application Tag, Location Tag, etc.	About Modbus-Master Tools of the control system used
Diagnostic data, system events, maintenance information (events: warning, error, notification)	About Modbus-Master Tools of the control system used

Deleting product data

Product data that is only stored during operation can be reset for a few seconds by interrupting all supply voltages.

To delete the permanently stored product data or to reset to factory settings, information is contained in the operating instructions of the pressure control valve.

Proportional pressure control valve VPPEO MODBUS RTU-...

Product information on the Data Regulation (EU) 2023/2854 for connected products
(information according to Art. 3 para. 2)

Date

October 10th, 2025

Our Reference

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

Festo's VPPEO MODBUS RTU-... pressure control valves record various product data during operation, which are intended for functionality, monitoring and diagnostics. The type and scope of product data depend on the type, configuration and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Process Data Width IN, OUT (Current Relative Pressure with an Integrated Pressure Sensor) · Identification · Diagnostic data · Configuration and Parameters (ISDU) · Binary Data Channel (BDC) (included from the firmware update)	IO-Link, Device V1.1, · Process Data OUTPUT (Integer 16bit) · Process Data INPUT (Integer 16bit) · Tags (32 tanks) · ISDU (Integer 8bit – Integer 32bit) · Binary data of different lengths	· 16-bit Integer (T16) (Any transfer of input/output) · ISDU / Identification / Locator / Diagnostic data will be transmitted if required · COM3 (230400 baud) Product data is updated cyclically, minimum cycle time: 0.5 ms (depending on parameters, transmitted data and application, the cycle time may be extended)

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
System events (locator location function via LED) Maintenance-Information	About Modbus-Master	On-demand data: dependent on the requested data

Data Storage and Duration of Retention Information according to Art. 3 para. 2 c)

The VPPEO MODBUS RTU-... pressure control valve is equipped and enables the generated product data to be retrieved by external devices. The pressure control valve is not capable of storing product data on an external device or remote server.

Data storage in the pressure regulating valve VPPE-...-MR	Duration of Retention
Process or measurement data	The last data is stored limited to operation, CPU overwrites it continuously
Configuration and parameters (ISDU)	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation
Maximum Temperature (CPU Temperature)	Permanent, is automatically overwritten at new max. temperature
Switching clearance counter	Permanent, will be continuously overwritten, resettable

For resetting the permanently stored product data, such as the shift counter or for resetting to factory settings, information is contained in the operating instructions of the pressure control valve.

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	About IO-Link-Master Tools of the control system used
Configuration and parameterization (data is stored in the device) Function Tag, Application Tag, Location Tag, etc.?	About IO-Link-Master Tools of the control system used
Diagnostic data, system events, maintenance information (events: warning, error, notification)	About IO-Link-Master Tools of the control system used

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or to reset to factory settings, instructions are provided in the operating manual of the pressure sensor.



Proportional pressure control valve VPPI-...-LK-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (information according to Art. 3 para. 2)

Date
10.10.2025

Note

- The product-specific details are available in the user information (catalogues, data sheets, operating instructions, general conditions of use) on the respective [product pages on the Internet](#) .

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Type, format and estimated scope of product data¹

Information pursuant to Art. 3 para. 2 a) and b)

The VPPI-...LK pressure control valves from Festo record various product data during operation, which are intended for functionality, monitoring and diagnostics. The type and scope of product data depend on the type, configuration and specific application.

Type of data	Format	Scope Cycle time or frequency
- Process Data Width IN, OUT (Current Relative Pressure with an Integrated Pressure Sensor) - Identification - Diagnostic data - Configuration and Parameters (ISDU) - Binary Data Channel (BDC) (included from firmware revision V1.x.x)	IO-Link, Device V1.1, - Process Data OUTPUT (Integer 16bit) - Process Data INPUT (Integer 16bit) - Tags (32 tanks) - ISDU (Integer 8bit – Integer 32bit) - Binary data of different lengths	16-bit Integer (T16) via IO-Link process data (Any transfer of input/output) - ISDU / Identification / Locator / Diagnostic data will be transmitted if required - COM3 (230400 baud) Product data is updated cyclically, minimum cycle time: 0.5 ms (depending on parameters, transmitted data and application, the cycle time may be extended)
System events (locator location function via LED)	About IO-Link-Master	On-demand data: depending on the data required

¹ "Product data" means data generated by the use of a connected product that the manufacturer has designed to be accessed by a user, data holder or third parties, including, where applicable, the manufacturer, via an electronic communications service, a physical connection or an in-device access (Art. 2, paragraph 15).

Type of data	Format	Scope Cycle time or frequency
Maintenance Information		

Data storage and storage period

Information pursuant to Art. 3 para. 2 c)

The VPPI-...-LK pressure control valve is equipped with IO-Link, which enables the generated product data to be retrieved by external devices. The pressure control valve is not capable of storing product data on an external device or remote server.

Data storage in the pressure control valve VPPI... LK	Storage period
Process or measurement data	The last data is stored limited to operation; CPU overwrites it continuously
Configuration and Parameters (ISDU)	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation
Maximum Temperature (CPU Temperature)	Permanent, is automatically overwritten at new max. temperature
Maximum Valve Actuator Temperature	Permanent, is automatically overwritten at new max. temperature
Switching clearance counter	Permanent, will be continuously overwritten, resettable

For resetting the permanently stored product data, such as the shift counter or for resetting to factory settings, information is contained in the operating instructions of the pressure control valve.

Access, retrieval and deletion of product data

Information pursuant to Art. 3 para. 2 d)

Type of product data	Access
Process data (input and output data)	About IO-Link-Master Tools of the control system used
Configuration and parameterization (data is stored in the device) Function Tag, Application Tag, Location Tag, etc.?	About IO-Link-Master Tools of the control system used
Diagnostic data, system events, maintenance information (events: warning, error, notification)	About IO-Link-Master Tools of the control system used

Deleting product data

Product data that is only stored during operation can be reset for a few seconds by interrupting all supply voltages.

To delete the permanently stored product data or to reset to factory settings, information is contained in the operating instructions of the pressure control valve.



Proportional pressure control valve VPPI-...A4/V1...

Product information on the Data Regulation (EU) 2023/2854 for connected products (information according to Art. 3 para. 2)

Date

10.10.2025

Note

- The product-specific details are available in the user information (catalogues, data sheets, operating instructions, general conditions of use) on the respective [product pages on the Internet](#) .

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Type, format and estimated scope of product data¹

Information pursuant to Art. 3 para. 2 a) and b)

The VPPI... from Festo record various product data during operation, which are intended for functionality, monitoring and diagnostics. The type and scope of the product data depend on the type, configuration and specific application.

Type of data	Format	Scope Cycle time or frequency
- Diagnostic data - Configuration data - Process data (setpoint/actual value)	- Diagnostic parameters (unsigned/integer 32bit, unsigned/integer 8bit and float) - Configuration parameters (unsigned integer 8bit and unsigned/Integer 16bit)	Product data is updated cyclically Configuration parameter updated depending on the setting in the menu. Diagnostic data are updated cyclically. Process data are updated cyclically.

Data storage and storage period

Information pursuant to Art. 3 para. 2 c)

The VPPI-...A4/V1...is equipped and allows the generated product data to be retrieved by external devices. The pressure control valve is not capable of storing product data on an external device or a remote server.

¹ "Product data" means data generated by the use of a connected product that the manufacturer has designed to be accessed by a user, data holder or third parties, including, where applicable, the manufacturer, via an electronic communications service, a physical connection or an in-device access (Art. 2, paragraph 15).

Data storage in the pressure control valve VPPI-...A4/V1	Storage period
Input and output data	The data stored for operation only and the CPU continuously overwrites them
Configuration Parameters	Permanent, overwritable
Number of full strokes	Permanently is continuously overwritten
Maximum Temperature (CPU Temperature)	Permanent, is automatically overwritten at new max. temperature
Maximum Valve Actuator Temperature	Permanent, is automatically overwritten at new max. temperature
Diagnostic parameters	Persistent, overwritable

Access, retrieval and deletion of product data Information pursuant to Art. 3 para. 2 d)

Type of product data	Access
Configuration Parameters	Via Display menu
Setpoint / actual value	Voltage or current
Max. Temperature	Via menu
Full stroke of actuator	Via menu
SW version	Via menu
Operation duration	Via menu

Deleting product data

Product data that is stored during operation cannot be reseted.

It is not possible to delete the permanently stored product data



Proportional pressure control valve VPPM-... LK-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (information according to Art. 3 para. 2)

Date
10.10.2025

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Type, format and estimated scope of product data¹

Information pursuant to Art. 3 para. 2 a) and b)

The VPPM-...-LK pressure regulating valves from Festo collect various product data during operation, which are intended for functionality, monitoring and diagnostics. The type and scope of product data depend on the type, configuration and specific application.

Type of data	Format	Scope Cycle time or frequency
- Process Data Width IN, OUT (Current Relative Pressure with an Integrated Pressure Sensor) - Identification - Diagnostic data - Configuration and Parameters (ISDU) - Binary Data Channel (BDC) (included from firmware revision V1.x.x)	IO-Link, Device V1.1, - Process Data OUTPUT (Integer 16bit) - Process Data INPUT (Integer 16bit) - Tags (32 tanks) - ISDU (Integer 8bit – Integer 32bit) - Binary data of different lengths	16-bit Integer (T16) via IO-Link process data (Any transfer of input/output) - ISDU / Identification / Locator / Diagnostic data will be transmitted if required - COM3 (230400 baud) Product data is updated cyclically, minimum cycle time: 0.5 ms (depending on parameters, transmitted data and application, the cycle time may be extended)
System Events	About IO-Link-Master	On-demand data: depending on the data queried

¹ "Product data" means data generated by the use of a connected product that the manufacturer has designed to be accessed by a user, data holder or third parties, including, where applicable, the manufacturer, via an electronic communications service, a physical connection or an in-device access (Art. 2, paragraph 15).

Type of data	Format	Scope Cycle time or frequency
Maintenance Information		

Data storage and storage period

Information pursuant to Art. 3 para. 2 c)

The VPPM-...-LK pressure control valve is equipped with IO-Link, which enables the generated product data to be retrieved by external devices. The pressure control valve is not capable of storing product data on an external device or remote server.

Data storage in the pressure control valve VPPM... LK	Storage period
Process or measurement data	The last data is stored limited to operation, CPU overwrites it continuously
Configuration and Parameters (ISDU)	Permanent, overwriteable
Diagnostic data, system events, maintenance information	Limited to operation
Maximum Temperature (CPU Temperature)	Permanent, is automatically overwritten at new max. temperature
Switching clearance counter	Permanent, will be continuously overwritten, resettable

For resetting the permanently stored product data, such as the shift counter or for resetting to factory settings, information is contained in the operating instructions of the pressure control valve.

Access, retrieval and deletion of product data Information pursuant to Art. 3 para. 2 d)

Type of product data	Access
Process data (input and output data)	About IO-Link-Master Tools of the control system used
Configuration and parameterization (data is stored in the device) Function Tag, Application Tag, Location Tag, etc.?	About IO-Link-Master Tools of the control system used
Diagnostic data, system events, maintenance information (events: warning, error, notification)	About IO-Link-Master Tools of the control system used

Deleting product data

Product data that is only stored during operation can be reset for a few seconds by interrupting all supply voltages.

To delete the permanently stored product data or to reset to factory settings, information is contained in the operating instructions of the pressure control valve.



Proportional pressure control valve VPPM-...

Product information on the Data Regulation (EU) 2023/2854 for connected products (information according to Art. 3 para. 2)

Date
10.10.2025

Note

- The product-specific details are available in the user information (catalogues, data sheets, operating instructions, general conditions of use) on the respective [product pages on the Internet](#) .

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Type, format and estimated scope of product data¹

Information pursuant to Art. 3 para. 2 a) and b)

The VPPM... pressure control valves from Festo record various product data during operation, which are intended for functionality, monitoring and diagnostics. The type and scope of the product data depend on the type, configuration and specific application.

Type of data	Format	Scope Cycle time or frequency
Diagnostic data switching counter	Digital	16-bit - Product data is updated cyclically

Data storage and storage period

Information pursuant to Art. 3 para. 2 c)

The VPPM... allows the generated product data to be retrieved by external devices. The pressure control valve is not capable of storing product data on an external device or a remote server.

Data storage in the pressure control valve VPPM...	Storage period
Maximum Temperature (CPU Temperature)	Permanent, is automatically overwritten at new max. temperature
Switching clearance counter	Persistent, will be continuously overwritten

¹ "Product data" means data generated by the use of a connected product that the manufacturer has designed to be accessed by a user, data holder or third parties, including, where applicable, the manufacturer, via an electronic communications service, a physical connection or an in-device access (Art. 2, paragraph 15).

Access, retrieval and deletion of product data **Information pursuant to Art. 3 para. 2 d)**

Type of product data	Access
diagnostic data, switching counter	In case of service

Deleting product data

Product data that is stored during operation cannot be reset.

It is not possible to delete the permanently stored product data



Motion Terminal VTEM

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective

[Motion Terminal VTEM](#)

Date

October 10th, 2025

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The Motion Terminal VTEM from Festo collect various product data during operation, which are intended for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and specific application.

Type of Data	Format	Volume Cycle time respectively frequency
Process data, depending on the selected function (Motion App) • Relative and absolute pressures (supply, exhaust air, ambient pressure, pressure at working connections or in the connected volume) • Valve positions • Degree of opening supply and exhaust air throttling • Travel time of the connected drive • Flow (volume flow) • Measured position of the connected drive • Detected leakage at the connected volume • Driving force	Number Format	Process Data • 2 bytes per value • Process data is updated cyclically (if the appropriate function is selected) • shortest cycle time: 1 ms
Configuration and Parameterization	Number Format	On-demand data: dependent on the requested data/APPs

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Type of Data	Format	Volume Cycle time respectively frequency
Learning data on the connected periphery (tubing, drive, ...), necessary for the optimal operation of certain functions (motion apps)	Number Format	On-demand data: dependent on the requested data/ APPs Learning data on the connected periphery (tubing, drive, ...), necessary for the optimal operation of certain functions (Motion APPs)
Diagnostic data, system events, maintenance information	Number Format Time Format String Format	On-demand data: dependent on the requested data

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The VTEM Motion Terminal communicates via internal interface with the physically connected CPX terminal, which allows external devices to retrieve the generated product data. The Motion Terminal itself is not capable of storing product data on an external device or a remote server.

Data Storage in Motion Terminal VTEM	Storage period
Process or measurement data	Until the power supply is switched off
Configuration and parameters	Permanent, overwriteable
Learning Data	Permanent, overwriteable
Diagnostic data, system events, maintenance information	until the power supply switched off
Maintenance information	Permanent, continuously updated

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	via WebConfig interface in the browser (with a local connection to the Ethernet interface) via CPX terminal
Configuration and parameterization	via WebConfig interface in the browser (with a local connection to the Ethernet interface) via CPX terminal
Learning data	via WebConfig interface in the browser (with a local connection to the Ethernet interface) via CPX terminal
Diagnostic data, system events, maintenance information	via WebConfig interface in the browser (with a local connection to the Ethernet interface) via CPX terminal

Deletion of Product Data

Product data that are stored only during operation can be reset by interrupting all power supplies for a few seconds.

To delete permanently stored product data or reset to factory settings, instructions are provided in the operating manual of the Motion Terminal VTEM. To delete permanently stored product data or reset to factory settings, instructions are provided in the operating manual of the Motion Terminal VTEM.



Proportional Pressure Control Valve Terminal VTEP

Product information on the Data Regulation (EU) 2023/2854 for connected products (Information according to art. 3 para. 2)

Note

- Product-specific details are available in the user information (catalogs, data sheets, operating instructions, general conditions of use) on the respective [product pages on the internet](#).

Date

April 20th, 2026

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Type, Format, and Estimated Volume of Product Data¹ Information according to Art. 3 para. 2 a) and b)

The Festo VTEP proportional pressure control valve terminal collects various product data during operation that are used for functionality, monitoring, and diagnostics. The type and scope of the product data depend on the model, configuration, and the specific application.

Type of Data	Format	Volume Cycle time respectively frequency
- Process data IN, OUT: supply pressure, ambient, exhaust pressure, pressure at outlet ports, temperature, status information (e.g. target reached) - Identification data - Diagnostic data - Configuration and parameters	Number formats via EtherCAT - Process data (PDO) - Mailbox data (SDO)	Up to bandwidth of EtherCAT Main Device Product data is updated cyclically, minimum cycle time: 1 ms

¹ “Product data” means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer. Information according to Art. 2 para. 15.

Data Storage and Duration of Retention

Information according to Art. 3 para. 2 c)

The VTEP pressure control valve terminal is equipped with EtherCAT, which enables an external device to retrieve the generated product data. The pressure control valve terminal is not capable of storing product data on an external device or a remote server by itself.

Data storage in the pressure control valve terminal VTEP	Storage duration
Process or measurement data	The latest data is stored limited to operation, the CPU continuously overwrites it.
Identification data	Persistent, not overwritable
Configuration and Parameters	Persistent, overwritable
Diagnostic data, System events	Limited to operation
Uptime of device	Persistent, not overwritable
Maximum temperature (CPU temperature), maximum pressures	Not stored
Switching cycle counter	Does not exist

Access to, Retrieval, and Deletion of Product Data Information according to Art. 3 para. 2 d)

Type of Product Data	Access
Process data (input and output data)	Tools of the used PLC
Identification data	Tools of the used PLC
Configuration and parameterization (data is stored in the device)	Tools of the used PLC
Diagnostic data, system events, (Events: Warning, Error, Information)	Tools of the used PLC

Deletion of Product Data

Product data that is only stored during operation can be reset by interrupting all power supplies for a few seconds.

For deletion of permanently stored parameterization data and configuration data to factory settings, information is contained in the operating manual of the valve terminal.

Valve Terminal VTOC-...

Product Information on Regulation (EU) 2023/2854 for Connected Products (Information pursuant to Article 3(2))

- Note

Product-specific details are available in the corresponding user documentation (catalogues, data sheets, operating instructions, and general operating conditions) on the respective [product pages](#) on the Internet.

Date

2025-11-19

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Nature, Format and Estimated Volume of Product Data¹ Information pursuant to Article 3(2), points (a) and (b)

The VTOC-... valve terminal family from Festo in the IO-Link version generates various product data during operation for functionality, monitoring, and diagnostic purposes. The type and volume of product data depend on the product type, configuration, and specific application.

Data	Type of data	Scope Cycle time or frequency
Process or Operating Data Independent of the configuration: varying numbers of valve solenoid outputs and digital inputs used as feedback signals for the solenoids in conjunction with the interlock function.	Byte	Valve solenoid process data width/OUT • 6 bytes Valve solenoid feedback/IN • 4 bytes
Configuration and Parameters	ISDUs via an IO-Link master	Not available
Diagnostic data, system events, and maintenance information	Via IO-Link master (1 to n bytes)	On-demand data: dependent on the current event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, a physical connection, or on-device access, by a user, data holder, or a third party, including, where relevant, the manufacturer (Article 2, point (15)).

Data Storage and Data Retention

Information pursuant to Article 3(2), point (c)

The VTOC-... valve terminal family from Festo in the IO-Link version enables product data generated by the device to be retrieved by external devices.

The VTOC valve terminal family is not capable of storing product data directly on an external device or on a remote server.

VTOC-...PT or VTUB-...LK (IO-Link)	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device or PLC).
Configuration and parameters	Not available
Diagnostic Data	Limited to operational use
System events and maintenance information as payload data	Limited to operational use

Access, Retrieval and Deletion of Product Data

Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The input and output data are managed via IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
Configuration and Parameter	Not available	
Diagnostic data	IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
System events and maintenance information as process data	Not available	



Valve Terminal VTSA-FB / VTSA-F-FB / VTSA-FB-AP / VTSA-F-FB-AP
Product Information pursuant to Regulation (EU) 2023/2854 (Data Act)
for Connected Products (Information pursuant to Article 3(2))

- Note
Product-specific details are available in the user documentation (catalogues, data sheets, operating instructions and general conditions of use) on the respective [product pages available](#) on the Internet.

Date
2025-11-19

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Nature, Format and Estimated Volume of Product Data¹

Information pursuant to Article 3(2), points (a) and (b)

The VTSA valve terminal family from Festo in the CPX and AP-A² versions generates various product data during operation for functionality, monitoring and diagnostic purposes. The type and volume of product data depend on the type, configuration and specific application. This document describes the VTSA with internal parallel wiring and CPX or AP-A system:

VTSA-FB / VTSA-F-FB / VTSA-FB-AP / VTSA-F-FB-AP

Data	Type of data	Scope Cycle time or frequency
The number of outputs for the valve solenoids remains constant, regardless of the configuration	Byte	Valve Solenoid Process Data Width 4 bytes
Configuration and Parameters	Via FAS ³ or PLC (Bool/UINT8/16-32 or CHAR)	On-demand data: dependent on the requested event
Diagnostic data, system events, and maintenance information	Via FAS or PLC (Bool/UINT8/16-32 or CHAR)	On-demand data: dependent on the current event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, physical connection or on-device access, by a user, data holder or a third party, including, where relevant, the manufacturer (Art. 2, point (15)).

² AP stands for Automation Platform. AP is a Festo device-to-device communication technology that enables communication between Festo devices and standard host systems via a gateway.

³ FAS = stands for Festo Automation Suite, a free software tool for commissioning and configuring Festo products. It provides access to all AP devices within the connected network.

Data Storage and Retention Period

Information pursuant to Article 3(2), point (c)

The VTSA valve terminal family in the CPX and AP-A/parallel versions enables externally connected devices to retrieve generated product data. The VTSA valve terminal family is not capable of directly storing product data on an external device or remote server.

VTSA-FB / VTSA-F-FB / VTSA-FB-AP / VTSA-F-FB-AP	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	• Persistent, overwriteable
Diagnostic Data	Limited to operational use • Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only • Application / function / installation location (device location information can be configured by the customer) • Switching cycle counter

Access, Retrieval and Deletion of Product Data

Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The (input and output data) are managed via the AP ⁴ -master or its associated tools (Festo Automation Suite (FAS) or PLC).	Interruption of all supply voltages for several seconds
Configuration and Parameter Settings	Configuration parameters are typically applied by the PLC during startup. For testing purposes or in special cases, settings can also be configured using Festo Automation Suite (FAS).	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.
Limited to operational use Diagnostic data	AP master or its tools	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	All values can be overwritten by the customer using the AP master or its associated tools	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.

⁹ VTSA-... does not provide any direct external interfaces. Communication with the customer or the PLC is always performed via the AP fieldbus gateway.

Valve Terminal VTSA-MP / VTSA-F-MP

Product Information on Regulation (EU) 2023/2854 for Connected Products (Information pursuant to Article 3(2))

- Note

Product-specific details are available in the corresponding user documentation (catalogues, data sheets, operating instructions, and general operating conditions) on the respective [product pages](#) on the Internet.

Date

2025-11-19

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Nature, Format and Estimated Volume of Product Data¹ Information pursuant to Article 3(2), points (a) and (b)

The VTSA-MP / VTSA-F-MP valve terminal family from Festo in the IO-Link version generates various product data during operation for functionality, monitoring, and diagnostic purposes. The type and volume of product data depend on the product type, configuration, and specific application.

Data	Type of data	Scope Cycle time or frequency
Process or Operating Data Outputs for the Valve Solenoids	Byte	Valve Solenoid Process Data Width 4 bytes
Configuration and Parameters	Via IO-Link master (1 to n bytes)	On-demand data: dependent on the requested event
Diagnostic data, system events, and maintenance information	Via IO-Link master (1 to n bytes) or via LED indication	On-demand data: dependent on the current event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, a physical connection, or on-device access, by a user, data holder, or a third party, including, where relevant, the manufacturer (Article 2, point (15)).

Data Storage and Data Retention

Information pursuant to Article 3(2), point (c)

The VTSA-MP / VTSA-F-MP valve terminal family from Festo in the IO-Link version enables product data generated by the device to be retrieved by external devices.

The VTSA-MP / VTSA-F-MP valve terminal family is not capable of storing product data directly on an external device or on a remote server.

VTSA-MP / VTSA-F-MP version for IO-Link	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	Persistent, overwriteable
Diagnostic Data	Limited to operational use Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only - Application / function / installation location (device location information can be configured by the customer) - Switching cycle counter

Access, Retrieval and Deletion of Product Data Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The input and output data are managed via IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
Configuration and Parameter	IO-Link master or its associated tools	Restore factory settings by intentionally overwriting the configuration using IO-Link-Master
Limited to operational use Diagnostic data	IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	Via IO-Link master Tools of the controller in use	Restore factory settings by intentionally overwriting the configuration using IO-Link-Master



Valve Terminal VTSA-F-CB / VTSA-F-CB-AP

Product Information pursuant to Regulation (EU) 2023/2854 for Connected Products

(Information pursuant to Article 3(2))

- **Note**

Product-specific details are available in the user documentation (catalogues, data sheets, operating instructions, and general conditions of use) on the respective [product pages](#) on the Internet.

Date

2025-11-19

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Nature, Format and Estimated Volume of Product Data¹

Information pursuant to Article 3(2), points (a) and (b)

The VTSA-F-CB / VTSA-F-CB-AP valve terminal family from Festo in the CPX and AP-A² versions generates various product data during operation for functionality, monitoring, and diagnostic purposes. The type and volume of product data depend on the product type, configuration, and specific application. This document describes the VTSA-F-CB / VTSA-F-CB-AP with the serial backbone architecture.

Data	Type of data	Scope Cycle time or frequency
Process or Operating Data Depending on the configuration: digital inputs and outputs for the valve solenoids in varying quantities.	Byte	Process data width IN • 0 to 6 bytes Valve solenoid process data width • 1 to 12 bytes
Serial vacuum solutions	Byte	Process data width IN per valve • 4 bytes Process data width OUT per valve • 2 bytes
Configuration and Parameters	Via FAS ³ or PLC (Bool/UINT8/16-32 or CHAR)	On-demand data: dependent on the requested event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, a physical connection, or on-device access, by a user, data holder, or a third party, including, where relevant, the manufacturer (Article 2, point (15)).

² AP stands for Automation Platform. AP is a Festo device-to-device communication technology that communicates with standard host systems via a gateway.

³ FAS = stands for Festo Automation Suite, a free software tool for commissioning and configuring Festo products. It provides access to all AP devices within the connected network.

Data	Type of data	Scope Cycle time or frequency
Diagnostic data, system events, and maintenance information	Via FAS or PLC (Bool/UINT8/16-32 or CHAR)	On-demand data: dependent on the current event

Data Storage and Data Retention

Information pursuant to Article 3(2), point (c)

The VTSA-F-CB / VTSA-F-CB-AP valve terminal family from Festo in the CPX/AP/serial version enables product data generated by the device to be retrieved by external devices.

The VTSA-F-CB / VTSA-F-CB-AP valve terminal family is not capable of storing product data directly on an external device or on a remote server.

VTSA-F-CB / VTSA-F-CB-AP	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	Persistent, overwriteable
Diagnostic Data	Limited to operational use Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only⁴ - Application / function / installation location (device location information can be configured by the customer) - Switching cycle counter

⁴ The VTSA-F-CB / VTSA-F-CB-AP valve terminal family from Festo in the CPX/AP version does not include an integrated error log. This functionality is provided by the AP master.

Access to, Retrieval, and Deletion of Product Data

Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The (input and output data) are managed via the AP ⁵ -master or its associated tools (Festo Automation Suite (FAS) or PLC).	Interruption of all supply voltages for several seconds
Configuration and Parameter Settings	Configuration parameters are typically applied by the PLC during startup. For testing purposes or in special cases, settings can also be configured using Festo Automation Suite (FAS).	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.
Limited to operational use Diagnostic data	AP master or its tools	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	All values can be overwritten by the customer using the AP master or its associated tools	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.

⁹ VTSA-... does not provide any direct external interfaces. Communication with the customer or the PLC is always performed via the AP fieldbus gateway.

Valve Terminal VTUG-...

Product Information pursuant to Regulation (EU) 2023/2854 for Connected Products

(Information pursuant to Article 3(2))

- **Note**

Product-specific details are available in the user documentation (catalogues, data sheets, operating instructions, and general conditions of use) on the respective [product pages](#) on the Internet.

Date

2025-11-19

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Nature, Format and Estimated Volume of Product Data¹

Information pursuant to Article 3(2), points (a) and (b)

The VTUG valve terminal family from Festo in the AP-A² versions generates various product data during operation for functionality, monitoring, and diagnostic purposes. The type and volume of product data depend on the product type, configuration, and specific application.

Data	Type of data	Scope Cycle time or frequency
Process or Operating Data Depending on the configuration: digital outputs for the valve solenoids in varying quantities.	Byte	Valve solenoid process data width • 3 bytes or 6 bytes
Configuration and Parameters	Via FAS or PLC (Bool/UINT8/16- 32 or CHAR)	On-demand data: dependent on the requested event
Diagnostic data, system events, and maintenance information	Via FAS or PLC (Bool/UINT8/16- 32 or CHAR)	On-demand data: dependent on the current event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, a physical connection, or on-device access, by a user, data holder, or a third party, including, where relevant, the manufacturer (Article 2, point (15)).

² AP stands for Automation Platform. AP is a Festo device-to-device communication technology that communicates with standard host systems via a gateway.

Data Storage and Data Retention

Information pursuant to Article 3(2), point (c)

The VTUG... valve terminal family from Festo in the AP version enables product data generated by the device to be retrieved by external devices.

The VTUG valve terminal family is not capable of storing product data directly on an external device or on a remote server.

VTUG-AP...	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	• Persistent, overwriteable
Diagnostic Data	Limited to operational use • Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only³ • Application / function / installation location (device location information can be configured by the customer) • Switching cycle counter

³ The VTUG valve terminal family from Festo in the AP version does not include an integrated error log. This functionality is provided by the AP master.

Access, Retrieval and Deletion of Product Data

Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The (input and output data) are managed via the AP ⁴ -master or its associated tools (Festo Automation Suite (FAS) or PLC).	Interruption of all supply voltages for several seconds
Configuration and Parameter Settings	Configuration parameters are typically applied by the PLC during startup. For testing purposes or in special cases, settings can also be configured using Festo Automation Suite (FAS).	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.
Limited to operational use Diagnostic data	AP master or its tools	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	All values can be overwritten by the customer using the AP master or its associated tools	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.

⁹ VTUG-... does not provide any direct external interfaces. Communication with the customer or the PLC is always performed via the AP fieldbus gateway.

Valve Terminal VTUG-...

Product Information on Regulation (EU) 2023/2854 for Connected Products (Information pursuant to Article 3(2))

- Note

Product-specific details are available in the corresponding user documentation (catalogues, data sheets, operating instructions, and general operating conditions) on the respective [product pages](#) on the Internet.

Datum

2025-11-19

Unser Zeichen

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Nature, Format and Estimated Volume of Product Data¹ Information pursuant to Article 3(2), points (a) and (b)

The VTUG valve terminal family from Festo in the IO-Link version generates various product data during operation for functionality, monitoring, and diagnostic purposes. The type and volume of product data depend on the product type, configuration, and specific application.

Data	Type of data	Scope Cycle time or frequency
Process or Operating Data Depending on the configuration: varying numbers of digital inputs, digital outputs, and outputs for the valve solenoids	Byte	Process data width IN • 0 or 2 bytes Process data width OUT • 0 or 1 byte • Digital outputs are available only in combination with digital inputs Valve solenoid process data width • 2, 4, or 6 bytes
Configuration and Parameters	Via IO-Link master (1 to n bytes)	On-demand data: dependent on the requested event
Diagnostic data, system events, and maintenance information	Via IO-Link master (1 to n bytes) or via LED indication	On-demand data: dependent on the current event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, a physical connection, or on-device access, by a user, data holder, or a third party, including, where relevant, the manufacturer (Article 2, point (15)).

Data Storage and Data Retention

Information pursuant to Article 3(2), point (c)

The VTUG-... valve terminal family from Festo in the IO-Link version enables product data generated by the device to be retrieved by external devices.

The VTUG valve terminal family is not capable of storing product data directly on an external device or on a remote server.

VTUG-...PT or VTUG-...LK =IO-Link	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	Persistent, overwriteable
Diagnostic Data	Limited to operational use Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only² Application / function / installation location (device location information can be configured by the customer)

² The VTUG-... valve terminal family from Festo, in the IO-Link version, does not have an integrated error log. This functionality is partly provided by the IO-Link master.

Furthermore, switching cycle counters are not integrated in this version.

Access, Retrieval and Deletion of Product Data

Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The input and output data are managed via IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
Configuration and Parameter	IO-Link master or its associated tools	Restore factory settings by intentionally overwriting the configuration using IO-Link-Master
Limited to operational use Diagnostic data	IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	Via IO-Link master Tools of the controller in use	Restore factory settings by intentionally overwriting the configuration using IO-Link-Master

Valve Terminal VTUX-A-P-...

Product Information pursuant to Regulation (EU) 2023/2854 for Connected Products

(Information pursuant to Article 3(2))

- Note:

Product-specific details are available in the user documentation (catalogues, data sheets, operating instructions, and general conditions of use) on the respective [product pages available](#) on the Internet.

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Type, Format and Estimated Volume of Product Data¹

Information pursuant to Article 3(2)(a) and (b)

The VTUX-... valve terminal family from Festo in the AP² version generates various product data during operation for functionality, monitoring, and diagnostic purposes.

The type and volume of product data depend on the specific product type, configuration, and application. This document describes the VTUX with internal parallel (Basic) wiring: VTUX-A-P-....

Data	Type of data	Scope Cycle time or frequency
The number of outputs for the valve solenoids remains constant, regardless of the configuration	Byte	Valve Solenoid Process Data Width • 4 bytes
Vacuum solution parallel		
Configuration and Parameters	Via FAS ³ or PLC (Bool/UINT8/16-32 or CHAR)	On-demand data: dependent on the requested event
Diagnostic data, system events, and maintenance information	Via FAS or PLC (Bool/UINT8/16-32 or CHAR)	On-demand data: dependent on the current event

¹ "Product data" means data generated through the use of a connected product which the manufacturer has designed to be retrievable by a user, data holder, or third party, where applicable including the manufacturer, via an electronic communications service, a physical connection, or on-device access (Article 2(15)).

² AP stands for Automation Platform. AP is a Festo device-to-device communication system that communicates with common host systems via a gateway.

³ FAS = stands for Festo Automation Suite, a free software tool for commissioning and configuring Festo products. It provides access to all AP devices within the connected network.

Data Storage and Retention Period

Information pursuant to Article 3(2), point (c)

The VTUX-A-P-... valve terminal family from Festo in the AP/parallel version enables product data generated by the device to be retrieved by external devices. The VTUX valve terminal family is not capable of storing product data directly on an external device or on a remote server.

VTUX-A-P-API... = AP	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	• Persistent, overwritable
Diagnostic Data	Limited to operational use • Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only • Application / function / installation location (device location information can be configured by the customer) • Switching cycle counter

Access, Retrieval and Deletion of Product Data

Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The (input and output data) are managed via the AP ⁴ -master or its associated tools (Festo Automation Suite (FAS) or PLC).	Interruption of all supply voltages for several seconds
Configuration and Parameter Settings	Configuration parameters are typically applied by the PLC during startup. For testing purposes or in special cases, settings can also be configured using Festo Automation Suite (FAS).	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.
Limited to operational use Diagnostic data	AP master or its tools	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	All values can be overwritten by the customer using the AP master or its associated tools	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.

⁴ VTUX-... does not provide any direct external interfaces. Communication with the customer or the PLC is always performed via the AP fieldbus gateway.

Valve Terminal VTUX-...

Product Information on Regulation (EU) 2023/2854 for Connected Products (Information pursuant to Article 3(2))

- Note

Product-specific details are available in the corresponding user documentation (catalogues, data sheets, operating instructions, and general operating conditions) on the respective [product pages](#) on the Internet.

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Nature, Format and Estimated Volume of Product Data¹ Information pursuant to Article 3(2), points (a) and (b)

The VTUX... valve terminal family from Festo in the IO-Link version generates various product data during operation for functionality, monitoring, and diagnostic purposes. The type and volume of product data depend on the product type, configuration, and specific application.

Data	Type of data	Scope Cycle time or frequency
Process or Operating Data Outputs for the Valve Solenoids	Byte	Valve Solenoid Process Data Width 4 bytes
Configuration and Parameters	Via IO-Link master (1 to n bytes)	On-demand data: dependent on the requested event
Diagnostic data, system events, and maintenance information	Via IO-Link master (1 to n bytes) or via LED indication	On-demand data: dependent on the current event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, a physical connection, or on-device access, by a user, data holder, or a third party, including, where relevant, the manufacturer (Article 2, point (15)).

Data Storage and Data Retention

Information pursuant to Article 3(2), point (c)

The VTUX... valve terminal family from Festo in the IO-Link version enables product data generated by the device to be retrieved by external devices.

The VTUX... valve terminal family is not capable of storing product data directly on an external device or on a remote server.

VTUX-A-P-IOS... or VTUX-A-P-IOL ... =IO-Link	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	Persistent, overwritable
Diagnostic Data	Limited to operational use Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only² - Application / function / installation location (device location information can be configured by the customer) - Switching cycle counter

² The VTUX-... valve terminal family from Festo, in the AP version, does not have an integrated error log. This functionality is provided by the AP master.

Access, Retrieval and Deletion of Product Data Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The input and output data are managed via IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
Configuration and Parameter	IO-Link master or its associated tools	Restore factory settings within the network by intentionally overwriting the configuration using IO-Link master
Limited to operational use Diagnostic data	IO-Link master or its associated tools	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	Via IO-Link master Tools of the controller in use	Restore factory settings within the network by intentionally overwriting the configuration using IO-Link master

Valve Terminal VTUX-A-S-...

Product Information pursuant to Regulation (EU) 2023/2854 for Connected Products

(Information pursuant to Article 3(2))

- **Note**

Product-specific details are available in the user documentation (catalogues, data sheets, operating instructions, and general conditions of use) on the respective [product pages](#) on the Internet.

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Nature, Format and Estimated Volume of Product Data¹

Information pursuant to Article 3(2), points (a) and (b)

The VTUX valve terminal family from Festo in the AP-A² versions generates various product data during operation for functionality, monitoring, and diagnostic purposes. The type and volume of product data depend on the product type, configuration, and specific application. This document describes the VTUX-A-S-... with the serial backbone architecture.

Data	Type of data	Scope Cycle time or frequency
Process or Operating Data Depending on the configuration: digital inputs and outputs for the valve solenoids in varying quantities.	Byte	Process data width IN 0 to 6 bytes Valve solenoid process data width 1 to 16 bytes
Serial vacuum solutions	Byte	Process data width IN per valve 4 bytes Process data width OUT per valve 2 bytes
Configuration and Parameters	Via FAS or PLC (Bool/UINT8/16-32 or CHAR)	On-demand data: dependent on the requested event
Diagnostic data, system events, and maintenance information	Via FAS or PLC (Bool/UINT8/16-32 or CHAR)	On-demand data: dependent on the current event

¹ "Product data" means data generated by the use of a connected product that the manufacturer designed to be retrievable, via an electronic communications service, a physical connection, or on-device access, by a user, data holder, or a third party, including, where relevant, the manufacturer (Article 2, point (15)).

² AP stands for Automation Platform. AP is a Festo device-to-device communication technology that communicates with standard host systems via a gateway.

Data Storage and Data Retention

Information pursuant to Article 3(2), point (c)

The VTUX-A-S-... valve terminal family from Festo in the AP/serial version enables product data generated by the device to be retrieved by external devices.

The VTUX valve terminal family is not capable of storing product data directly on an external device or on a remote server.

VTUX-A-S-API... = AP	Retention period
Process or operating data	I/O data is only available during operation (cyclically updated and not stored without a master device).
Configuration and parameters	Persistent, overwriteable
Diagnostic Data	Limited to operational use Events are triggered by specific occurrences
System events and maintenance information as payload data	Not limited to operation only³ - Application / function / installation location (device location information can be configured by the customer) - Switching cycle counter, optionally also via the valve memory module (service life counter)

³ The VTUX valve terminal family from Festo in the CPX/AP version does not include an integrated error log. This functionality is provided by the AP master.

Access to, Retrieval, and Deletion of Product Data

Information pursuant to Article 3(2), point (d)

Type of product data	Access	Deletion
Process or Operating Data	The (input and output data) are managed via the AP ⁴ -master or its associated tools (Festo Automation Suite (FAS) or PLC).	Interruption of all supply voltages for several seconds
Configuration and Parameter Settings	Configuration parameters are typically applied by the PLC during startup. For testing purposes or in special cases, settings can also be configured using Festo Automation Suite (FAS).	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.
Limited to operational use Diagnostic data	AP master or its tools	Interruption of all supply voltages for several seconds
Not limited to operational use System events and maintenance information as process data	With the exception of the service life counter (available only if the valve memory module is ordered), all values can be overwritten by the customer. Similar to a vehicle's odometer, the purpose of the service life counter is to provide a non-manipulable and non-resettable record. Therefore, it is read-only (RO) for the customer.	Restore factory settings within the network by intentionally overwriting the configuration using Festo Automation Suite (FAS) or a PLC.

⁹ VTUX-... does not provide any direct external interfaces. Communication with the customer or the PLC is always performed via the AP fieldbus gateway.