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TURCK

TBIL-S3-8DXP
IO-Link IO Hub

IO-Link Parameters – IO-Link Version 1.1

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1 About This Manual

This manual describes the parameterization of devices using IO-Link. The manual contains general information on IO-Link and a list of the available parameters.

1.1 Target groups

These instructions are aimed at qualified personal and must be carefully read by anyone mounting, commissioning, operating, maintaining, dismantling or disposing of the device.

1.2 Explanation of symbols used

The following symbols are used in these instructions:

	**DANGER** DANGER indicates a dangerous situation with high risk of death or severe injury if not avoided.
	**WARNING** WARNING indicates a dangerous situation with medium risk of death or severe injury if not avoided.
	**CAUTION** CAUTION indicates a dangerous situation of medium risk which may result in minor or moderate injury if not avoided.
	**NOTICE** NOTICE indicates a situation which may lead to property damage if not avoided.
	**NOTE** NOTE indicates tips, recommendations and useful information on specific actions and facts. The notes simplify your work and help you to avoid additional work.
▶	**CALL TO ACTION** This symbol denotes actions that the user must carry out.
⇨	**RESULTS OF ACTION** This symbol denotes relevant results of actions.

1.3 Other documents

Besides this document the following material can be found on the Internet at www.turck.com:

- Data sheet
- Quick Start Guide
- Operating instructions

1.4 Feedback about these instructions

We make every effort to ensure that these instructions are as informative and as clear as possible. If you have any suggestions for improving the design or if some information is missing in the document, please send your suggestions to techdoc@turck.com.

2 Notes on the Product

2.1 Product identification

These instructions apply to the IO-Link I/O hubs

- TBIL-S3-8DXP

2.2 Manufacturer and service

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Germany

Turck supports you with your projects, from initial analysis to the commissioning of your application. The Turck product database contains software tools for programming, configuration or commissioning, data sheets and CAD files in numerous export formats. You can access the product database at the following address: **www.turck.de/products**

For further inquiries in Germany contact the Sales and Service Team on:

- Sales: +49 208 4952-380
- Technology: +49 208 4952-390

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3 Software-Supported IO-Link Parameterization

The ports of the IO-Link master can be configured in IO-Link mode (IOL) or in Standard IO mode (SIO).

If a port is set to SIO mode, the IO-Link master at this port behaves like a normal digital input. The connected IO-Link device transfers its conventional switching output to the IO-Link master – no communication takes place between the device and the IO-Link master.

If the port is configured in IOL mode, the IO-Link master tries to wake the connected IO-Link device via the "Wake-up Request". If the master receives a response from the IO-Link device, both devices start to communicate with each other. The communication parameters are exchanged first of all; the cyclic data exchange of the process data (process data objects) then starts.

When IO-Link communication (IOL mode) is active, both a cyclic and acyclic communication service is available.

There are two ways of setting the parameters via IO-Link:

- via on-request data objects (e.g. close to the PLC via IO-Link function block)
- via tool-based engineering via FDT/DTM (e.g. PACTware with the use of DTM or the IODD)

Device parameters (on-request data objects)

Device parameters are exchanged acyclically and on request of the IO-Link master. The IO-Link master always sends a request to the device first, then the device responds. This applies when the data is written into the device and also when read from the device. On-request data objects (ORDO) enable parameter values to be written into the device (write) or device states to be read from the device (read).

IO-Link configuration in PROFINET

Using SIDI (Simple IO-Link Device Integration), IO-Link devices can be configured in PROFINET applications directly in the programming environment (e.g. TIA Portal). The Turck IO-Link devices are integrated in the GSDML file of the IO-Link masters in the TBEN, TBPN and FEN20 product series and can be configured in the programming environment as submodules of a modular I/O system. During this process, the user has access to all device properties and parameters.

4 IO-Link Parameters

4.1 General parameters

Parameter	Content
Vendor ID	317 (0x13D)
Device ID	1974803 (0x1E2213)
IO-Link version	1.1
Bitrate	COM2 (38.4 kbit/s)
Minimum cycle time	2.8 ms
SIO supported	False
M-Sequence Capability	PREOPERATE = TYPE_1_V with 8 octets on-request data ISDU supported
Block Parameter	True
Data Storage	True
ProfileCharacteristic	

4.2 Process input data

Name	Byte.Bit-offset	Bit length	Subindex access supported	Data Type	Value	Description
Input 7	0.7	1	False	Boolean	false/true	
Input 6	0.6	1	False	Boolean	false/true	
Input 5	0.5	1	False	Boolean	false/true	
Input 4	0.4	1	False	Boolean	false/true	
Input 3	0.3	1	False	Boolean	false/true	
Input 2	0.2	1	False	Boolean	false/true	
Input 1	0.1	1	False	Boolean	false/true	
Input 0	0.0	1	False	Boolean	false/true	
Sum diagnosis	1.7	1	False	Boolean	false/true	
Undervoltage supply	1.2	1	False	Boolean	false/true	
Overvoltage supply	1.0	1	False	Boolean	false/true	
Overcurrent Vaux Connector 7	2.7	1	False	Boolean	false/true	
Overcurrent Vaux Connector 6	2.6	1	False	Boolean	false/true	
Overcurrent Vaux Connector 5	2.5	1	False	Boolean	false/true	
Overcurrent Vaux Connector 4	2.4	1	False	Boolean	false/true	
Overcurrent Vaux Connector 3	2.3	1	False	Boolean	false/true	
Overcurrent Vaux Connector 2	2.2	1	False	Boolean	false/true	
Overcurrent Vaux Connector 1	2.1	1	False	Boolean	false/true	
Overcurrent Vaux Connector 0	2.0	1	False	Boolean	false/true	
Overcurrent output 7	3.7	1	False	Boolean	false/true	
Overcurrent output 6	3.6	1	False	Boolean	false/true	
Overcurrent output 5	3.5	1	False	Boolean	false/true	
Overcurrent output 4	3.4	1	False	Boolean	false/true	
Overcurrent output 3	3.3	1	False	Boolean	false/true	
Overcurrent output 2	3.2	1	False	Boolean	false/true	
Overcurrent output 1	3.1	1	False	Boolean	false/true	
Overcurrent output 0	3.0	1	False	Boolean	false/true	

4.3 Process output data

Name	Byte.Bit-offset	Bit length	Subindex access supported	Data Type	Value	Description
Output 7	3.7	1	False	Boolean	false/true	
Output 6	3.6	1	False	Boolean	false/true	
Output 5	3.5	1	False	Boolean	false/true	
Output 4	3.4	1	False	Boolean	false/true	
Output 3	3.3	1	False	Boolean	false/true	
Output 2	3.2	1	False	Boolean	false/true	
Output 1	3.1	1	False	Boolean	false/true	
Output 0	3.0	1	False	Boolean	false/true	

4.4 Standard parameters

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit-offset	Bit length	Data Type	Value	Default	Description
Min Cycle Time	0	0x0	3	0x3	True	read	2.0	8	UInteger			
IO-Link Version ID	0	0x0	5	0x5	True	read	4.0	8	UInteger		17	
Vendor ID 1	0	0x0	8	0x8	True	read	7.0	8	UInteger			
Vendor ID 2	0	0x0	9	0x9	True	read	8.0	8	UInteger			
Device ID 1	0	0x0	10	0xA	True	read	9.0	8	UInteger			
Device ID 2	0	0x0	11	0xB	True	read	10.0	8	UInteger			
Device ID 3	0	0x0	12	0xC	True	read	11.0	8	UInteger			
Standard Command	2	0x2	0	0x0	True	write	0.0	8	UInteger	0… 212		System command
										128		Device Reset
										130		Restore Factory Settings
Invert digital input										170		No for all channels
										171		Yes for all channels
Pulse extension input										180		Deactivate for all channels
Activate output										190		No for all channels
										191		Yes for all channels
Manual reset of output …										200		No for all channels
										201		Yes for all channels
Output in the event of an error										210		0 for all channels
										211		1 for all channels
										212		Current value for all channels
Parameter (write) Access Lock	12	0xC	1	0x1	False	read/ write	0.0	1	Boolean	false/ true		Device access locks
Data Storage Lock	12	0xC	2	0x2	False	read/ write	0.1	1	Boolean	false/ true		Device access locks

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit-offset	Bit length	Data Type	Value	Default	Description
Local Para-meterization Lock	12	0xC	3	0x3	False	read/ write	0.2	1	Boolean	false/ true		Device access locks
Local User Interface Lock	12	0xC	4	0x4	False	read/ write	0.3	1	Boolean	false/ true		Device access locks
Vendor Name	16	0x10	0	0x0	True	read	0.0	512	String		Turck	Vendor name
Vendor Text	17	0x11	0	0x0	True	read	0.0	512	String		www. turck. com	Additional manufacturer information
Product Name	18	0x12	0	0x0	True	read	0.0	512	String		TBIL-M1-16 DXP	Manufac-turer's device designation
Product ID	19	0x13	0	0x0	True	read	0.0	512	String		6814102	Ident-No.
Product Text	20	0x14	0	0x0	True	read	0.0	512	String		I/O-Hub	Device category
Serial Number	21	0x15	0	0x0	True	read	0.0	128	String			Device serial number
Firmware Version	23	0x17	0	0x0	True	read	0.0	512	String			Firmware revision
Application Specific Tag	24	0x18	0	0x0	True	read/ write	0.0	256	String			Any user generated content
Process Data Input	40	0x28	0	0x0	True	read	0.0	32	Process-DataIn-Union			
Process Data Output	41	0x29	0	0x0	True	read	0.0	8	Process-Data OutUnion			

4.5 Parameters

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Function Tag	25	0x19	0	0x0	True	read/ write	0.0	256	String	NaN … NaN	***	
Location Tag	26	0x1A	0	0x0	True	read/ write	0.0	256	String	NaN … NaN	***	
Parameter ID	64	0x40	0	0x0	True	read/ write	0.0	32	UInteger	NaN … NaN	0	Free number to identify, e.g. module-number
Invert digital input	65	0x41	1	0x1	False	read/ write	0.7	1	Boolean	false/ true	false	Toggle the logic of inputs 0: normal 1: inverted
										false		no
										true		yes
Invert digital input	65	0x41	2	0x2	False	read/ write	0.6	1	Boolean	false/ true	false	Toggle the logic of inputs 0: normal 1: inverted
										false		no
										true		yes
Invert digital input	65	0x41	3	0x3	False	read/ write	0.5	1	Boolean	false/ true	false	Toggle the logic of inputs 0: normal 1: inverted
										false		no
										true		yes
Invert digital input	65	0x41	4	0x4	False	read/ write	0.4	1	Boolean	false/ true	false	Toggle the logic of inputs 0: normal 1: inverted
										false		no
										true		yes
Invert digital input	65	0x41	5	0x5	False	read/ write	0.3	1	Boolean	false/ true	false	Toggle the logic of inputs 0: normal 1: inverted
										false		no
										true		yes

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Invert digital input	65	0x41	6	0x6	False	read/ write	0.2	1	Boolean	false/ true	false	Toggle the logic of inputs 0: normal 1: inverted
										false		no
										true		yes
Invert digital input	65	0x41	7	0x7	False	read/ write	0.1	1	Boolean	false/ true	false	Toggle the logic of inputs 0: normal 1: inverted
										false		no
										true		yes
Invert digital input	65	0x41	8	0x8	False	read/ write	0.0	1	Boolean	false/ true	false	Toggle the logic of inputs 0: normal 1: inverted
										false		no
										true		yes
Activate output	66	0x42	1	0x1	False	read/ write	0.7	1	Boolean	false/ true	true	Sets the corresponding channel as an output or input 0: input 1: output
										false		no
										true		yes
Activate output	66	0x42	2	0x2	False	read/ write	0.6	1	Boolean	false/ true	true	Sets the corresponding channel as an output or input 0: input 1: output
										false		no
										true		yes
Activate output	66	0x42	3	0x3	False	read/ write	0.5	1	Boolean	false/ true	true	Sets the corresponding channel as an output or input 0: input 1: output
										false		no
										true		yes

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Activate output	66	0x42	4	0x4	False	read/ write	0.4	1	Boolean	false/ true	true	Sets the correspond-ing channel as an output or input 0: input 1: output
										false		no
										true		yes
Activate output	66	0x42	5	0x5	False	read/ write	0.3	1	Boolean	false/ true	true	Sets the correspond-ing channel as an output or input 0: input 1: output
										false		no
										true		yes
Activate output	66	0x42	6	0x6	False	read/ write	0.2	1	Boolean	false/ true	true	Sets the correspond-ing channel as an output or input 0: input 1: output
										false		no
										true		yes
Activate output	66	0x42	7	0x7	False	read/ write	0.1	1	Boolean	false/ true	true	Sets the correspond-ing channel as an output or input 0: input 1: output
										false		no
										true		yes
Activate output	66	0x42	8	0x8	False	read/ write	0.0	1	Boolean	false/ true	true	Sets the correspond-ing channel as an output or input 0: input 1: output
										false		no
										true		yes

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Pulse stretching input	67	0x43	1	0x1	True	read/ write	0.0	8	UInteger	0… 255	0	Stretching of the input signal from 10 to 2550 ms (time base: 10 ms). Default setting: 0 = pulse stretching deactivated (standard pulse = 2.5 ms)
										0		deactivated
Pulse stretching input	67	0x43	2	0x2	True	read/ write	1.0	8	UInteger	0… 255	0	Stretching of the input signal from 10 to 2550 ms (time base: 10 ms). Default setting: 0 = pulse stretching deactivated (standard pulse = 2.5 ms)
										0		deactivated
Pulse stretching input	67	0x43	3	0x3	True	read/ write	2.0	8	UInteger	0… 255	0	Stretching of the input signal from 10 to 2550 ms (time base: 10 ms). Default setting: 0 = pulse stretching deactivated (standard pulse = 2.5 ms)
										0		deactivated

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Pulse stretching input	67	0x43	4	0x4	True	read/ write	3.0	8	UInteger	0… 255	0	Stretching of the input signal from 10 to 2550 ms (time base: 10 ms). Default setting: 0 = pulse stretching deactivated (standard pulse = 2.5 ms)
										0		deactivated
Pulse stretching input	67	0x43	5	0x5	True	read/ write	4.0	8	UInteger	0… 255	0	Stretching of the input signal from 10 to 2550 ms (time base: 10 ms). Default setting: 0 = pulse stretching deactivated (standard pulse = 2.5 ms)
										0		deactivated
Pulse stretching input	67	0x43	6	0x6	True	read/ write	5.0	8	UInteger	0… 255	0	Stretching of the input signal from 10 to 2550 ms (time base: 10 ms). Default setting: 0 = pulse stretching deactivated (standard pulse = 2.5 ms)
										0		deactivated

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Pulse stretching input	67	0x43	7	0x7	True	read/ write	6.0	8	UInteger	0… 255	0	Stretching of the input signal from 10 to 2550 ms (time base: 10 ms). Default setting: 0 = pulse stretching deactivated (standard pulse = 2.5 ms)
										0		deactivated
Pulse stretching input	67	0x43	8	0x8	True	read/ write	7.0	8	UInteger	0… 255	0	Stretching of the input signal from 10 to 2550 ms (time base: 10 ms). Default setting: 0 = pulse stretching deactivated (standard pulse = 2.5 ms)
										0		deactivated
Manual output reset after overcurrent	68	0x44	1	0x1	False	read/ write	0.7	1	Boolean	false/ true	false	Define output behaviour after overload 0: automatic recovery mode 1: controlled recovery mode (output has to be reset)
										false		no
										true		yes

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Manual output reset after overcurrent	68	0x44	2	0x2	False	read/ write	0.6	1	Boolean	false/ true	false	Define output behaviour after overload 0: automatic recovery mode 1: controlled recovery mode (output has to be reset)
										false		no
										true		yes
Manual output reset after overcurrent	68	0x44	3	0x3	False	read/ write	0.5	1	Boolean	false/ true	false	Define output behaviour after overload 0: automatic recovery mode 1: controlled recovery mode (output has to be reset)
										false		no
										true		yes
Manual output reset after overcurrent	68	0x44	4	0x4	False	read/ write	0.4	1	Boolean	false/ true	false	Define output behaviour after overload 0: automatic recovery mode 1: controlled recovery mode (output has to be reset)
										false		no
										true		yes

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Manual output reset after overcurrent	68	0x44	5	0x5	False	read/ write	0.3	1	Boolean	false/ true	false	Define output behaviour after overload 0: automatic recovery mode 1: controlled recovery mode (output has to be reset)
										false		no
										true		yes
Manual output reset after overcurrent	68	0x44	6	0x6	False	read/ write	0.2	1	Boolean	false/ true	false	Define output behaviour after overload 0: automatic recovery mode 1: controlled recovery mode (output has to be reset)
										false		no
										true		yes
Manual output reset after overcurrent	68	0x44	7	0x7	False	read/ write	0.1	1	Boolean	false/ true	false	Define output behaviour after overload 0: automatic recovery mode 1: controlled recovery mode (output has to be reset)
										false		no
										true		yes

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Manual output reset after overcurrent	68	0x44	8	0x8	False	read/ write	0.0	1	Boolean	false/ true	false	Define output behaviour after overload 0: automatic recovery mode 1: controlled recovery mode (output has to be reset)
										false		no
										true		yes
Output after error	69	0x45	1	0x1	False	read/ write	0.6	2	UInteger	0…2	0	Define output behaviour in case of broken IO-Link communication 00: Set output to 0 01: Set output to 1 10: Hold current value 11: Reserved
										0		0
										1		1
										2		Current value
Output after error	69	0x45	2	0x2	False	read/ write	0.4	2	UInteger	0…2	0	Define output behaviour in case of broken IO-Link communication 00: Set output to 0 01: Set output to 1 10: Hold current value 11: Reserved
										0		0
										1		1
										2		Current value

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Output after error	69	0x45	3	0x3	False	read/ write	0.2	2	UInteger	0…2	0	Define output behaviour in case of broken IO-Link com-munication 00: Set output to 0 01: Set output to 1 10: Hold current value 11: Reserved
										0		0
										1		1
										2		Current value
Output after error	69	0x45	4	0x4	False	read/ write	0.0	2	UInteger	0…2	0	Define output behaviour in case of broken IO-Link com-munication 00: Set output to 0 01: Set output to 1 10: Hold current value 11: Reserved
										0		0
										1		1
										2		Current value
Output after error	69	0x45	5	0x5	False	read/ write	1.6	2	UInteger	0…2	0	Define output behaviour in case of broken IO-Link com-munication 00: Set output to 0 01: Set output to 1 10: Hold current value 11: Reserved
										0		0
										1		1
										2		Current value

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Output after error	69	0x45	6	0x6	False	read/ write	1.4	2	UInteger	0…2	0	Define output behaviour in case of broken IO-Link com-munication 00: Set output to 0 01: Set output to 1 10: Hold current value 11: Reserved
										0		0
										1		1
										2		Current value
Output after error	69	0x45	7	0x7	False	read/ write	1.2	2	UInteger	0…2	0	Define output behaviour in case of broken IO-Link com-munication 00: Set output to 0 01: Set output to 1 10: Hold current value 11: Reserved
										0		0
										1		1
										2		Current value
Output after error	69	0x45	8	0x8	False	read/ write	1.0	2	UInteger	0…2	0	Define output behaviour in case of broken IO-Link com-munication 00: Set output to 0 01: Set output to 1 10: Hold current value 11: Reserved
										0		0
										1		1
										2		Current value

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Undervoltage value diagnoses	70	0x46	1	0x1	False	read/ write	0.0	1	Boolean	false/ true	false	Set or activate undervoltage diagnoses and their threshold values
										false		Standard (IEC 61131-2)
										true		Extended
Sum diagnosis	80	0x50	1	0x1	False	read	0.7	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Undervoltage supply	80	0x50	2	0x2	False	read	0.2	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Overvoltage supply	80	0x50	3	0x3	False	read	0.0	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Overcurrent Vaux Connector 7	80	0x50	4	0x4	False	read	1.7	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Overcurrent Vaux Connector 6	80	0x50	5	0x5	False	read	1.6	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Overcurrent Vaux Connector 5	80	0x50	6	0x6	False	read	1.5	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Overcurrent Vaux Connector 4	80	0x50	7	0x7	False	read	1.4	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Overcurrent Vaux Connector 3	80	0x50	8	0x8	False	read	1.3	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Overcurrent Vaux Connector 2	80	0x50	9	0x9	False	read	1.2	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Overcurrent Vaux Connector 1	80	0x50	10	0xA	False	read	1.1	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)
Overcurrent Vaux Connector 0	80	0x50	11	0xB	False	read	1.0	1	Boolean	false/ true		Indicates an overcurrent at auxiliary supply or a voltage supply error (out of specification)

Name	Index (dec.)	Index (hex.)	Sub-index (dec.)	Sub-index (hex.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Overcurrent output 7	81	0x51	1	0x1	False	read	0.7	1	Boolean	false/ true		Indicates an overcurrent at the corres-ponding digital output
Overcurrent output 6	81	0x51	2	0x2	False	read	0.6	1	Boolean	false/ true		Indicates an overcurrent at the corres-ponding digital output
Overcurrent output 5	81	0x51	3	0x3	False	read	0.5	1	Boolean	false/ true		Indicates an overcurrent at the corres-ponding digital output
Overcurrent output 4	81	0x51	4	0x4	False	read	0.4	1	Boolean	false/ true		Indicates an overcurrent at the corres-ponding digital output
Overcurrent output 3	81	0x51	5	0x5	False	read	0.3	1	Boolean	false/ true		Indicates an overcurrent at the corres-ponding digital output
Overcurrent output 2	81	0x51	6	0x6	False	read	0.2	1	Boolean	false/ true		Indicates an overcurrent at the corres-ponding digital output
Overcurrent output 1	81	0x51	7	0x7	False	read	0.1	1	Boolean	false/ true		Indicates an overcurrent at the corres-ponding digital output
Overcurrent output 0	81	0x51	8	0x8	False	read	0.0	1	Boolean	false/ true		Indicates an overcurrent at the corres-ponding digital output

4.6 Events

Code	Type	Name	Description
20480	Error	Device hardware fault	Device exchange
20752	Warning	Primary supply voltage over-run	Check tolerance
20753	Warning	Primary supply voltage under-run	Check tolerance
30480	Error	Short circuit	Check installation

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