

# SIEMENS

## SIMATIC ET 200SP

### Product information on documentation of the ET 200SP distributed I/O system

#### Product Information

## General amendments to the documentation

### Contents

This product information includes amendments and corrections to the documentation of the ET 200SP distributed I/O system.

### Which I/O modules are compatible with a BaseUnit?

The following table provides an overview of which I/O modules are compatible with the associated BaseUnits:

Table 1 Possible combinations of BaseUnits and I/O modules

I/O module	BaseUnit BU15-		BaseUnit BU20-				Color identification label for Process terminals
	BU type A0 P16+A10+2D P16+A0+2D P16+A10+2B P16+A0+2B	BU type A1 P16+A0+12D/T P16+A0+2D/T P16+A0+12B/T P16+A0+2B/T	BU type B0 P12+A4+0B	BU type C0 P6+A2+4D	BU type C1* P6+A2+4B	BU type D0 P12+A0+0B	
<b>Digital I/O modules</b>							
DI 16x24VDC ST	✓						---
DI 8x24VDC ST	✓						CC01
DI 8x24VDC HF	✓						CC01
DQ 16x24VDC/0,5A ST	✓						---
DQ 4x24VDC/2A ST	✓						CC02
DQ 8x24VDC/0,5 ST	✓						CC02
DQ 8x24VDC/0,5A HF	✓						CC02
RQ 4x120VDC- 230VAC/5A NO ST			✓				---
<b>Analog I/O modules</b>							
AI 4xRTD/TC 2-/3-/4-wire HF	✓	✓					---
AI 4xU/I 2-wire ST	✓	✓					CC03
AI 2xU/I 2-/4-wire HS	✓	✓					---
AI 4xI 2-/4-wire ST	✓	✓					CC03
AQ 4xU/I ST	✓	✓					---
AQ 4xU/I HS	✓	✓					---
AI Energy Meter ST						✓	---

I/O module	BaseUnit BU15-		BaseUnit BU20-				Color identification label for Process terminals
	BU type A0 P16+A10+2D P16+A0+2D P16+A10+2B P16+A0+2B	BU type A1 P16+A0+12D/T P16+A0+2D/T P16+A0+12B/T P16+A0+2B/T	BU type B0 P12+A4+0B	BU type C0 P6+A2+4D	BU type C1* P6+A2+4B	BU type D0 P12+A0+0B	
<b>Fail-safe modules</b>							
F-PM-E 24VDC/8A PPM ST				✓			CC52
F-DI 8x24VDC HF	✓						CC01
F-DQ 4x24VDC/2A PM HF	✓						CC02
<b>Communication modules</b>							
CM 4xIO-Link	✓						CC04
CM AS-i Master ST				✓			---
CM PtP	✓						---

\* in preparation

## Components of the ET 200SP

Table 2 Interface modules

Interface modules	Packing unit	Order number
Interface module IM 155-6 PN ST		
• with BusAdapter BA 2xRJ45 and server module	1 unit	6ES7155-6AA00-0BN0
• with server module	1 unit	6ES7155-6AU00-0BN0
Interface module IM 155-6 PN HF with server module	1 unit	6ES7155-6AU00-0CN0
Interface module IM 155-6 DP HF with PROFIBUS FastConnect bus connector (6ES7972-0BB70-0XA0) and server module	1 unit	6ES7155-6BA00-0CN0

Important differences between interface modules			
Properties	IM 155-6 PN ST	IM 155-6 PN HF	IM 155-6 DP HF
Bus connection	BusAdapter BA 2xRJ45 or BA 2xFC	BusAdapter BA 2xRJ45 or BA 2xFC	PROFIBUS DP connection socket
Number of modules	32	64	32
RESET button	Yes	Yes	Not necessary
Address space (I/O data) in byte	256	1440	244
Multi hot-swapping	No	Yes	Yes

Table 3 BaseUnits

BU type	BaseUnits (abbreviation)	Packing unit	Color identification labels*	Order number
A0	BU15-P16+A10+2D	1 unit	<b>P16:</b> CC01 to CC04 <b>A10:</b> CC71 to CC73	6ES7193-6BP20-0DA0
A0	BU15-P16+A0+2D	1 unit	<b>P16:</b> CC01 to CC04	6ES7193-6BP00-0DA0
A0	BU15-P16+A10+2B	1 unit	<b>P16:</b> CC01 to CC04 <b>A10:</b> CC71 to CC73	6ES7193-6BP20-0BA0
A0	BU15-P16+A0+2B	1 unit	<b>P16:</b> CC01 to CC04	6ES7193-6BP00-0BA0
A1	BU15-P16+A0+12D/T	1 unit	<b>P16:</b> CC01 to CC04 <b>12D:</b> CC74	6ES7193-6BP40-0DA1
A1	BU15-P16+A0+2D/T	1 unit	<b>P16:</b> CC01 to CC04	6ES7193-6BP00-0DA1
A1	BU15-P16+A0+12B/T	1 unit	<b>P16:</b> CC01 to CC04 <b>12B:</b> CC74	6ES7193-6BP40-0BA1
A1	BU15-P16+A0+2B/T	1 unit	<b>P16:</b> CC01 to CC04	6ES7193-6BP00-0BA1
B0	BU20-P12+A4+0B	1 unit	<b>P12:</b> CC41 <b>A4:</b> CC81 to CC83	6ES7193-6BP20-0BB0
C0	BU20-P6+A2+4D	1 unit	<b>P6:</b> CC51, CC52 <b>A2:</b> CC84 to CC86	6ES7193-6BP20-0DC0
C1	BU20-P6+A2+4B	1 unit	<b>P6:</b> CC51 <b>A2:</b> CC84 to CC86	6ES7193-6BP20-0BC1
D0	BU20-P12+A0+0B	1 unit	---	6ES7193-6BP00-0BD0

\* not included in the scope of delivery of the BaseUnits

Table 4 Digital I/O modules

Digital I/O modules	Packing unit	Order number
DI 16x24VDC ST	1 unit	6ES7131-6BH00-0BA0
DI 8x24VDC ST	1 unit	6ES7131-6BF00-0BA0
DI 8x24VDC HF	1 unit	6ES7131-6BF00-0CA0
DQ 16x24VDC ST	1 unit	6ES7132-6BH00-0BA0
DQ 8x24VDC/0,5A ST	1 unit	6ES7132-6BF00-0BA0
DQ 8x24VDC/0,5A HF	1 unit	6ES7132-6BF00-0CA0
DQ 4x24VDC/2A ST	1 unit	6ES7132-6BD20-0BA0
RQ 4x120VDC-230VAC/5A NO ST	1 unit	6ES7132-6HD00-0BB0

Table 5 Analog I/O modules

Analog I/O modules	Packing unit	Order number
AI 4xU/I 2-wire ST	1 unit	6ES7134-6HD00-0BA1
AI 2xU/I 2-/4-wire HS	1 unit	6ES7134-6HB00-0DA1
AI 4xI 2-/4-wire ST	1 unit	6ES7134-6GD00-0BA1
AI 4xRTD/TC 2-/3-/4-wire HF	1 unit	6ES7134-6JD00-0CA1
AQ 4xU/I ST	1 unit	6ES7135-6HD00-0BA1
AQ 2xU/I HS	1 unit	6ES7135-6HB00-0DA1
AI Energy Meter ST	1 unit	6ES7134-6PA00-0BD0

Table 6 Fail-safe modules

Fail-safe modules	Packing unit	Order number
F-PM-E 24VDC/8A PPM ST	1 unit	6ES7136-6PA00-0BC0
F-DI 8x24VDC HF	1 unit	6ES7136-6BA00-0CA0
F-DQ 4x24VDC/2A PM HF	1 unit	6ES7136-6DB00-0CA0

Table 7 Communication modules

Communication modules	Packing unit	Order number
CM 4xIO-Link	1 unit	6ES7137-6BD00-0BA0
CM AS-i Master ST	1 unit	3RK7137-6SA00-0BC1
CM PtP	1 unit	6ES7137-6AA00-0BA0

Table 8 General accessories

General accessories	Packing unit	Order number
BusAdapter		
<ul style="list-style-type: none"> <li>BA 2×RJ45 (PROFINET BusAdapter with standard Ethernet socket for IM-PN)</li> </ul>	1 unit	6ES7193-6AR00-0AA0
<ul style="list-style-type: none"> <li>BA 2×FC (PROFINET BusAdapter with Fast connect Ethernet connection for IM-PN)</li> </ul>	1 unit	6ES7193-6AF00-0AA0
PROFIBUS FastConnect bus connector	1 unit	6ES7972-0BB70-0XA0
Server module (spare part)	1 unit	6ES7193-6PA00-0AA0
BU cover		
<ul style="list-style-type: none"> <li>15 mm wide</li> </ul>	5 units	6ES7133-6CV15-1AM0
<ul style="list-style-type: none"> <li>20 mm wide</li> </ul>	5 units	6ES7133-6CV20-1AM0
Shield connection for BaseUnit (shield supports and shield terminals)	5 units	6ES7193-6SC00-1AM0
Equipment labeling plate, sheet with 16 labels	10 units	6ES7193-6LF30-0AW0
Labeling strips (for labeling the I/O modules)		
<ul style="list-style-type: none"> <li>Roll, light gray (with a total of 500 labeling strips)</li> </ul>	1 unit	6ES7193-6LR10-0AA0
<ul style="list-style-type: none"> <li>Roll, yellow (with a total of 500 labeling strips)</li> </ul>	1 unit	6ES7193-6LR10-0AG0
<ul style="list-style-type: none"> <li>DIN A4 sheets, light gray (with a total of 1000 labeling strips)</li> </ul>	10 units	6ES7193-6LA10-0AA0
<ul style="list-style-type: none"> <li>DIN A4 sheets, yellow (with a total of 1000 labeling strips)</li> </ul>	10 units	6ES7193-6LA10-0AG0
Mounting rails, tin-plated steel strip		
<ul style="list-style-type: none"> <li>Length: 483 mm</li> </ul>	1 unit	6ES5710-8MA11
<ul style="list-style-type: none"> <li>Length: 530 mm</li> </ul>	1 unit	6ES5710-8MA21
<ul style="list-style-type: none"> <li>Length: 830 mm</li> </ul>	1 unit	6ES5710-8MA31
<ul style="list-style-type: none"> <li>Length 2000 mm</li> </ul>	1 unit	6ES5710-8MA41

Table 9 Accessories color coding labels (Push-In terminals), 15 mm wide

Accessories color coding labels (Push-In terminals), 15 mm wide	Packing unit	Order number
16 process terminals (see Manual - I/O module)		
• gray (terminals 1 to 8), red (terminals 9 to 16); color code CC01	10 units	6ES7193-6CP01-2MA0
• gray (terminals 1 to 8), blue (terminals 9 to 16); color code CC02	10 units	6ES7193-6CP02-2MA0
• gray (terminals 1 to 8), red (terminals 9 to 12), gray (terminals 13 to 16); color code CC03	10 units	6ES7193-6CP03-2MA0
• gray (terminals 1 to 8), red (terminals 9 to 12), blue (terminals 13 to 16); color code CC04	10 units	6ES7193-6CP04-2MA0
10 AUX terminals (for BU15-P16+A10+2D, BU15-P16+A10+2B)		
• yellow-green (terminals 1A to 10A); color code CC71	10 units	6ES7193-6CP71-2AA0
• red (terminals 1A to 10A); color code CC72	10 units	6ES7193-6CP72-2AA0
• blue (terminals 1A to 10A); color code CC73	10 units	6ES7193-6CP73-2AA0
10 add-on terminals (for BU15-P16+A0+12D/T, BU15-P16+A0+12B/T)		
• red (terminals 1B to 5B), blue (terminals 1C to 5C); color code CC74	10 units	6ES7193-6CP74-2AA0

Table 10 Accessories color coding labels (Push-In terminals), 20 mm wide

Accessories color coding labels (Push-In terminals), 20 mm wide	Packing unit	Order number
12 process terminals (see Manual - I/O module)		
• gray (terminals 1 to 4), red (terminals 5 to 8), blue (terminals 9 to 12); color code CC41	10 units	6ES7193-6CP41-2MB0
6 process terminals (see Manual - I/O module)		
• gray (terminals 1 to 4), red (terminal 5), blue (terminal 6); color code CC51	10 units	6ES7193-6CP51-2MC0
• Gray (terminals 1, 2 and 5), red (terminals 3 and 4), blue (terminal 6); color code CC52	10 units	6ES7193-6CP52-2MC0
4 AUX terminals (for BU20-P12+A4+0B)		
• yellow-green (terminals 1A to 4A); color code CC81	10 units	6ES7193-6CP81-2AB0
• red (terminals 1A to 4A); color code CC82	10 units	6ES7193-6CP82-2AB0
• blue (terminals 1A to 4A); color code CC83	10 units	6ES7193-6CP83-2AB0
2 AUX terminals (for BU20-P6+A2+4D, BU20-P6+A2+4B)		
• yellow-green (terminals 1A and 2A); color code CC84	10 units	6ES7193-6CP84-2AC0
• red (terminals 1A and 2A); color code CC85	10 units	6ES7193-6CP85-2AC0
• blue (terminals 1A and 2A); color code CC86	10 units	6ES7193-6CP86-2AC0

# System manual ET 200SP Distributed I/O System, Edition 04/2013

## Chapter 8.5 Firmware update

If a firmware update is interrupted, you have to pull and plug the respective module before you start the firmware update again.

## Manual: Interface module IM 155-6 DP HF, Edition 04/2013

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### Note

#### Communication module IO-Link Master CM 4xIO-Link

Operation of the communication module IO-Link Master CM 4xIO-Link with the interface module IM 155-6 DP HF is supported as of S7-PCT V3.1 and an updated module firmware version/GSD file.

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### Note

#### Value status (QI quality information)

The I/O modules DI 8x24VDC HF (V1.1), DQ 8x24VDC/0.5A HF (V1.1), AI 2xU/I 2-/4-wire HS, AI 4xRTD/TC 2-/3-/4-wire HF (V1.1) and AQ 2xU/I HS can evaluate the value status (Quality Information QI). This function is in preparation for the use of these I/O modules with the interface module IM 155-6 DP HF.

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## Chapter 4 Parameters/address space

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### Note

#### PROFIBUS GSD configuration with STEP 7 V5.5 SP3

- The universal module may not be configured.
  - The parameter DP-Alarm-Mode may not be set to the value DPV0.
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### Chapter 4.3.1 Configuration control and control data record

- If you receive the error code 80B2<sub>H</sub> when you write the control data record 196, check whether the required configuration has been applied despite the error code.
- If no control data record 196 was written, an internal 1-to-1 mapping (configured slot → actual slot) is assumed. This mapping forms the feedback data record.

## Chapter 5 Interrupts, diagnostic, error, and system alarms

Status of the supply voltage:

Load voltage diagnostics are only valid if the station started up with a valid and complete configuration.

For modules without parameter assignment in the following table, the status of the supply voltage is always signaled as "1" regardless of the actual status of the supply voltage.

Modules	Order number
DI 8x24VDC ST	6ES7132-6BF00-0BA0
DI 16x24VDC ST	6ES7131-6BH00-0BA0
DI 8x24VDC HF	6ES7132-6BF00-0CA0
DQ 4x24VC/2A ST	6ES7132-6BD20-0BA0
DQ 8x24VDC/0,5A ST	6ES7132-6BF00-0BA0
DQ 16x24VDC/0,5A ST	6ES7132-6BH00-0BA0
DQ 8x24VDC/0,5A HF	6ES7131-6BF00-0CA0

## Chapter 5.1 Status and error displays, table 5-5 Error displays

Error type (MAINT)	Error location (ERROR/MAINT)	Cause of the error	Remedy
1	33*	<ul style="list-style-type: none"> <li>Missing server module</li> <li>Interruptions on the backplane bus</li> <li>Short-circuit on the backplane bus</li> </ul>	Check the configuration of the ET 200SP.

\* Slot

# Manual: Interface module IM 155-6 PN ST, Edition 04/2013

## Note

### Value status (QI quality information)

The I/O modules DI 8x24VDC HF (V1.1), DQ 8x24VDC/0.5A HF (V1.1), AI 2xU/I 2-/4-wire HS, AI 4xRTD/TC 2-/3-/4-wire HF (V1.1) and AQ 2xU/I HS can evaluate the value status (Quality Information QI). This function is in preparation for the use of these I/O modules with the interface module IM 155-6 PN ST.

## Chapter 4.3.1 Configuration control and control data record

If no control data record 196 was written, an internal 1-to-1 mapping (configured slot → actual slot) is assumed. This mapping forms the feedback data record.

## Chapter 5 Interrupts, diagnostic, error, and system alarms

Status of the supply voltage:

Load voltage diagnostics are only valid if the station started up with a valid and complete configuration.

- For modules without parameter assignment in the following table, the status of the supply voltage is always signaled as "1" regardless of the actual status of the supply voltage.
- If a potential group is exclusively made up of modules without parameter assignment from the table below, no group diagnostics "Missing supply voltage L+" is signaled for this potential group.

Modules	Order number
DI 8x24VDC ST	6ES7132-6BF00-0BA0
DI 16x24VDC ST	6ES7131-6BH00-0BA0
DI 8x24VDC HF	6ES7132-6BF00-0CA0
DQ 4x24VC/2A ST	6ES7132-6BD20-0BA0
DQ 8x24VDC/0,5A ST	6ES7132-6BF00-0BA0
DQ 16x24VDC/0,5A ST	6ES7132-6BH00-0BA0
DQ 8x24VDC/0,5A HF	6ES7131-6BF00-0CA0

# Manual Interface module IM 155-6 PN HF, Edition 09/2013

## Use of fail-safe modules

The use of fail-safe modules in the interface module IM 155-6 PN HF is in preparation.

## Chapter 4.3.1 Configuration control and control data record

If no control data record 196 was written, an internal 1-to-1 mapping (configured slot → actual slot) is assumed. This mapping forms the feedback data record.

# Manual BaseUnit, Edition 04/2013

## Chapter 14: BU20-P12+A0+0B (BaseUnit type D0)

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### Note

The shield connection (shield support and shield terminal) is not intended for BaseUnit BU20-P12+A0+0B and should not be installed.

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# Manual Digital input module DI 8x24VDC HF, Edition 09/2013

## Chapter 5 Interrupts/diagnostics alarms

If you reconfigure a module (so that the user data size changes) and diagnostics are pending prior to the reconfiguration, these diagnostics are not signaled as "outgoing".

# Manuals for digital output modules DQ 16x24VDC/0,5A ST; DQ 8x24VDC/0,5A ST; DQ 8x24VDC/0,5A HF; DQ 4x24VDC/2A ST

## Safety-related shutdown of ET 200SP digital output modules (in preparation):

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### Note

Safety-related shutdown of ET 200SP digital output modules

- SIL according to IEC 61508: 2
- Highest attainable safety class in safety mode, performance level according to EN ISO 13849-1: d

is in preparation.

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# Manual: Analog input module AI Energy Meter ST, Edition 04/2013

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### Note

After turning on the supply voltage UL1 at the module, it takes about 2 seconds before the first measured values are available. User data and data record contents are deleted up to that point (= "0"). In the input user data, in byte 0 ("ID byte 1" = Status and structure of user data) the content of "0" changes to the selected user data version (value range: 159, 246 to 254). This change in byte 0 can be used as trigger event.

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## Firmware update

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### Note

#### Firmware update

Please note that L1 and N must be connected to the module during the firmware update.

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## Chapter 4.1 Measurement types, Figure 4-1, Figure 4-2, Figure 4-3

To protect the connecting cables at UL1, UL2 and UL3, especially after cross-section transitions, ensure there is sufficient conductor protection.



Chapter 4.3 Measured variables, Table 4-1 Available measured variables

	Measured variables	Data record DS 142			User data			Comment	Calculation acc. to IEC 61557-12	
		Format (float=4, Double=8 bytes according to IEEE 754-2008)	Unit	Value range	Format	Unit	Value range			
30	Total apparent energy	Float	Vah	0...3.4e+38	See information as of Index 37			Total apparent energy (cumulative value)		
31	Total reactive energy	Float	varh	-3.4e+38...+3.4e+38				Total reactive energy (cumulative value)		Total value from import minus export
32	Total active energy	Float	Wh	Total active energy (cumulative value)						
33	Total reactive energy, import	Float	varh	0...3.4e+38				Total reactive energy, import (cumulative value)		
34	Total reactive energy, export	Float	varh	Total reactive energy, export (cumulative value)						
35	Total active energy, import	Float	Wh	Total active energy, import (cumulative value)						
36	Total active energy, export	Float	Wh	Total import energy, export (cumulative value)						
37	Total apparent energy	Double	Vah	0...1.8e+308	32-bit	Vah	0...4294967295	Total apparent energy (cumulative value)		
38	Total reactive energy	Double	varh	-1.8e+308...+1.8e+308	31-bit + sign	varh	-2147483648...2147483647	Total reactive energy (cumulative value)	Total value from import minus export	
39	Total active energy	Double	Wh	Total reactive energy (cumulative value)		Wh				
40	Total reactive energy, import	Double	varh	0...1.8e+308	32-bit	varh	0...4294967295	Total reactive energy, import (cumulative value)		
41	Total reactive energy, export	Double	varh	Total reactive energy, export (cumulative value)						

	Measured variables	Data record DS 142			User data			Comment	Calculation acc. to IEC 61557-12
		Format (float=4, Double=8 bytes according to IEEE 754-2008)	Unit	Value range	Format	Unit	Value range		
42	Total active energy, import	Double	Wh			Wh		Total active energy, import (cumulative value)	
43	Total active energy, export	Double	Wh			Wh		Total import energy, export (cumulative value)	

**Note**

- The cumulative value in 3-phase operation is the sum of the respective individual values of the phases.
- Import and export energy meters are always positive values.
- The diagnostics "Overflow calculated values" is not triggered in connection with the maximum values of the energy meters.

**Chapter 4.4 User data**

**Note**

If the energy meter is no longer recognized by the interface module (for example, because it is defective or not inserted), all input data is set to "0".

Chapter 4.5 Energy meter data record, Table 4-6 Energy meter data record 143 (RESTORE)

Byte		Format	Length in bytes	Unit	Value range	Meaning
8	Active energy, import, start value L1	Double	8	Wh	0...3.4e+12 as maximum value that can be specified	If the individual variables are selected via bits, the respective start values starting from address 8 apply. Only the values selected using control bits are applied and these energy calculations are restructured.
16	Active energy, export, start value L1	Double	8	Wh		
24	Reactive energy, import, start value L1	Double	8	varh		
32	Reactive energy, export, start value L1	Double	8	varh		
40	Apparent energy start value L1	Double	8	VAh		
48	Active energy, import, start value L2	Double	8	Wh		
56	Active energy, export, start value L2	Double	8	Wh		
64	Reactive energy, import, start value L2	Double	8	varh		
72	Reactive energy, export, start value L2	Double	8	varh		
80	Apparent energy start value L2	Double	8	VAh		
88	Active energy, import, start value L3	Double	8	Wh		
96	Active energy, export, start value L3	Double	8	Wh		
104	Reactive energy, import, start value L3	Double	8	varh		
112	Reactive energy, export, start value L3	Double	8	varh		
120	Apparent energy start value L3	Double	8	VAh		

**Note**

Energy meters are reset to "0" with:

- Load voltage switching (supply at L1)
- Reconfiguration of measuring type/measuring range or current transformer parameters, such as transfer factor, secondary current and current direction

Chapter 4.5 Energy meter data record, Table 4-9 Energy meter data record 143 (STORE)

Byte		Format	Length in bytes	Unit	Value range	Meaning
8	Active energy, import, start value L1	Double	8	Wh	0...1.8e+308	Current energy meter values
16	Active energy, export, start value L1	Double	8	Wh		
24	Reactive energy, import, start value L1	Double	8	varh		
32	Reactive energy, export, start value L1	Double	8	varh		
40	Apparent energy start value L1	Double	8	VAh		
48	Active energy, import, start value L2	Double	8	Wh		
56	Active energy, export, start value L2	Double	8	Wh		
64	Reactive energy, import, start value L2	Double	8	varh		
72	Reactive energy, export, start value L2	Double	8	varh		
80	Apparent energy start value L2	Double	8	VAh		
88	Active energy, import, start value L3	Double	8	Wh		
96	Active energy, export, start value L3	Double	8	Wh		
104	Reactive energy, import, start value L3	Double	8	varh		
112	Reactive energy, export, start value L3	Double	8	varh		
120	Apparent energy start value L3	Double	8	VAh		

Appendix A.1 Parameter assignment and structure of the parameter data record: Figure A-6 Channel parameter block

Byte x+6, bits 5 and 4:

Current transformer secondary current

- 00 = 1 A
- 10 = 5 A

## Manual: Communication module IO-Link Master CM 4xIO-Link, Edition 01/2013

Appendix A.1 Parameter data record

**Note**

If you transfer invalid parameters to the DS 128 data record of the module with the SFB 53 WRREC instruction, the contents of the DS 128 data record are also invalid.

Siemens AG  
Industry Sector  
Postfach 48 48  
90026 NÜRNBERG

Product information on documentation of the ET 200SP distributed I/O system  
A5E03799595-05, 09/2013