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# 1 PROFIBUS Module

The PROFIBUS module 6DR2803-8P can also be used in the serial interface slot on all SIPART DR controllers. This module works as a slave and supports communication in accordance with the DP standard (cyclic services), with software version -C1 upwards also acyclic services (DP-V1). The module has been certified with the no. Z00177 by the PNO (PROFIBUS user organization). The 9-pin connector pin assignment corresponds with the standard EN50170

The device data base files (GSD) DR0200A7.GSD and DR0300A7.GSD (software version -C4 upwards) accompany this and can also be downloaded from the Internet at [www.ad.siemens.de/csi/gsd](http://www.ad.siemens.de/csi/gsd) PROFIBUS GSD files/Control.

Special programs (standard function blocks) are available for the Siemens PLC Simatic S5/S7 masters to allow interfacing with the SIPART DR.

The file DR0200A7.GSD is already contained in the PROFIBUS configuration tool from Siemens. It is also required when the standard function blocks (FB) are used.

The file DR0300A7.GSD is recommended (from software version -C4 onwards!) if the standard function blocks (FB) are not to be used for S5/S7 or a different master is used.

## 2 Preparations before Operation

### 2.1 Settings on the SIPART DR Device

The serial interface on the device must be configured in the following way:

- Interface on (if possible, e.g. DR19, DR21)
- Even parity
- Without LRC
- Baud rate 9600
- Parameters/process values writable (as desired)
- Station number 0-125 (each number may only be used once)

#### 2.1.1 Configuring the Slave for the Master

The config bytes define the type and number of cyclically transmitted input/output bytes. The selection of configurations can be taken from the GSD.

At least 3 config bytes have to be sent:

- 1st Config Byte:
  - 0x00: Only processing of process data (AKZ and PNU not used)
  - 0xF3: 8 byte input/output -> full functions of all writable/readable variables
- 2nd/ 3rd Config Byte:
  - each 0x00 or 0x50 to 0x5F: define the total number of cyclically readable process data
- 4th Config Byte (optional):
  - 0x00: Use of the Simatic S5 floating-point format (otherwise IEEE)

From software version -C4 onwards additional process data can be transmitted by adding up to 8 config bytes containing 0xA2 (otherwise only via job identification (AKZ) and parameter number (PNU)).

#### 2.1.2 Parameterization of the Slave for the Master

The additional parameterization defines which process data (each 2 bytes) are transmitted cyclically in which order.

Each process variable is defined (addressed) by 2 parameter bytes.

Parameter bytes 1 to 64 set the up to 32 readable process values.

Expansion from software version -C4 onwards:

- Parameter bytes 65 to -80 set the up to 8 writable process values,
- A further byte can be added (content 0x01) for using a special time monitoring function (see there) resulting in an uneven number of parameter bytes.

### 2.1.3 Time Monitoring

The master can set parameters for a DP watchdog time. It becomes active when monitoring time parameters are set in the SIPART DR. This time must be < 10 sec. The device reaction when there is a time out (sum of DP watchdog and device monitoring time) then corresponds with the respective device configuration.

If the SIPART is also to react correspondingly to the "Master only transmits zeros" (e.g. PLC in stop), an uneven last parameter byte 0x01 must also be sent (software version -C4 onwards).

## 3 Transmission Procedure with job identification (AKZ) and parameter number (PNU)

### 1. Config-Byte=0xF3

The 8 byte input/output (each consistent across all 8 bytes) is used in the following way for reading and writing with AKZ (job identification) and PNU (parameter number):

	Master -> Slave (command)		Slave -> Master (reply)	
1. Byte	AKZ	PNU	AKZ	PNU
2. Byte	PNU		PNU	
3. Byte	Subindex (if required)		Subindex (if required)	
4. Byte	0		0	
5. Byte	Data 1 (only double word)		Data 1 (only double word)	
6. Byte	Data 2 (only double word)		Data 2 (only double word)	
7. Byte	Data 3		Data 3	
8. Byte	Data 4		Data 4	

#### Meaning of AKZ

- 0: No job
- 1: Read parameter
- 2: Write parameter (word)
- 3: Write parameter (double word)
- 4: Description element  
Read with subindex 1 - 6
- 6: Read parameter (element of an arrays)
- 7: Write parameter  
(element of an array)

#### Note:

Software version -C4 onwards  
No decision  
Between AKZ 2 and 3

#### Meaning of AKZ

- 0: No reply
- 1: Requested data in data 3 - 4
- 2: Requested data in data 1 - 4
- 3: Requested description element in data 1 - 4
- 4: Requested array element in data 1 - 4
- 8: No operating hierarchy  
(e.g. parameterization on device front)
- 7: Job cannot be carried out  
Data 4 then contains the following error no.:
- 0: Invalid parameter number (PNU)
- 1: Parameter not writable
- 2: Value range invalid
- 3: Incorrect subindex
- 4: No array
- 5: Incorrect data type
- 11: No access achieved via ST\_U
- 18: Other error (process data buffer full)

## 4 Description of the Communication Objects

Each communication object has a parameter number (PNU) and a parameter description in the form of a data record. This description can be read out using job identification (AKZ) 4 and the subindex.

Subindex	Byte-length	Meaning	Data type
1	2	Identification/data type	octet string
2	1	Number of array elements for parameter	unsigned char
3	4	Lower limit value	as selected PNU
4	4	Upper limit value	Parameter (Doppelwort) schreiben
5	2	Variable index/conversion index	octet string
6	4	Name	ASCII string

PNU = Parameter number

### 4.1 Interpretation of Identification

(byte 1/subindex 1)

Bit	Meaning
7	PNU as process data (PCD) suitable for cyclic reading (writing)
6	PNU is an array (a sequence of data from the same type)
5	Writable only with PNU 0 = 2/3 (bit 1 in status ST_U)
4	Writable only with PNU 0 = 1/3 (bit 0 in status ST_U)
3	-
2	Special formats ("off" / "auto" / "nop") permitted
1	Not writable
0	Limit values not relevant

PNU = Parameter number

#### 4.1.1 Interpretation of Data Type

(byte 2/subindex 1)

Nro.	Byte length	Abbreviation	Format	Comments
3	2	int16	integer 16	
4	4	int32	integer 32	
8	4	FL	float IEEE	
10	2	os	octet string	
14	2	bs	bit string	
9	4	vs	ASCII string	
24	4	FL	float Simatic-S5 format	Only when 4th config byte = 0

Note:

- 1.) Order of bytes always from high to low
- 2.) The two low mantissa bytes should be 0 when float values are written

Special formats (if permitted)

"oFF" with float values: 0x00000000

"oFF" / "auto" / "nop" with int16 values: 0x8000

### 4.1.2 Interpretation of Variable Index

(byte 1/subindex 5)

According to actuator-sensor profile of PNO.

Examples:

No.	Meaning	Unit
4	Time	
17	Temperature	Degree
23	Resistance	Ohms

### 4.1.3 Interpretation of Conversion Index

(byte 2/subindex 5)

This value contains the 10th power with which the transmitted value has to be multiplied.

e.g.:

Transmitted PNU value: 0x0064 (int16 --> 100)

Conversion index: 0xFF (-1 in 2 complement)

--> valid value:  $100 * 10^{\text{Exp}-1} = 10$

Special cases:

- 0x7F (127) : Conversion factor: \* 1/16384

Example:

int16 0x2000 = 8192 -->  $8192 * 1/16384 = 0.5 = 50\%$

- 0xE9 (-23): Conversion factor: \* 20 (msec)

## 5 Universal Communication Objects

The following objects (PNU < 100) are the same for all SIPART DR. The device-specific objects are listed from PNU 100 onwards.

PNU (dec.)	Description element (subindex)						
	1 Identification/data type	2 Array number	3 Min. value	4 Max. value	5 Variable index/conver- sion index	6 Name	
0	00000000 / bs16	0	0	3	0 / 0	ST_U	1.)
1	00000011 / int16	0	0	0	0 / 0	MAX	2.)
2	10000001 / bs16	0	0	0	0 / 0	ST_C	3.)
3	00000011 / os2	0	0	0	0 / 0	Typ	4.)
4	00000011 / os2	0	0	0	0 / 0	V_Gr	5.)
5	00000011 / os2	0	0	0	0 / 0	V_Op	6.)
6 bis 9	00000001 / vs4	0	0	0	0 / 0	KNZ1 to KNZ4	7.)
10 bis 41	00000001 / int 16	0	0	0	0 / 0	PZ01 to PZ32	8.)
42 bis 49	00000001 / int 16	0	0	0	0 / 0	PZW1 to PZW8	9.)

PNU = Parameter number; PZ = Process value; PZW = Process value writable

1.) Control byte for parameterization/structuring (writable/readable)

Method for writing "onPA" parameters

- Filling bit 1 of the PNU 0 with 1
- Writing any parameters with bit 5 identifier possible in corresponding identification
- Filling bit 1 of the PNU 0 with 0 (-> data are transferred into device)

Method for writing "stru" parameters

- Filling bit 0 of the PNU 0 with 1
- Writing any parameters with bit 5 identifier possible in corresponding identification
- Filling bit 0 of the PNU 0 with 0 (-> data are transferred into device)

Note: Bit 0 and bit 1 can also be changed in a common write job.

2.) Highest PNU (only readable)

3.) Status C (writable/readable)

Bit	Meaning
4	Front parameterization enabled
3	Front structuring enabled
2	Write protection for job to be carried out available
1	Front access to "onPA" parameter with identifier bit 5 in identification has occurred (not with DR20!)
0	Front access to "Stru" parameter with identifier bit 4 in identification has occurred (not with DR20!)

Note: Identifiers in bit 0 / .1 / .2 can be acknowledged by filling with 0

4.) Device type (only readable):

- = 0: SIPART DR20
- = 1: SIPART DR22
- = 2: SIPART DR24
- = 3: SIPART DR21
- = 4: SIPART DR19
- = 5: SIPART DR19P (with time scheduler)

5.) Software version SIPART DR basic unit (only readable)

6.) Software version PROFIBUS module (only readable)

7.) The system identifier consisting of 4\*4 byte ASCII is writable/readable. The data are saved on the module with no-volt protection.

8./9.) The PNUs 10 to 41 or 42 to 49 are a replica of the extended parameters for setting the read/write data in the cyclic data transfer. They only have to be filled when the master does not have extended parameter capability.  
The data are then saved on the module with no-volt protection.

## 6 Writing Process Data (Cyclic)

This function is only possible with software version -C4 onwards.

These data must be written using AKZ and PNU in earlier versions.

Each config byte from the 0xA2 form creates 3 byte output with consistency over all 3 bytes. This allows one process variable for each to be written.

The PNU number of the variable to be written must be set in the extended parameters from byte no. 65.

Master --> Slave	
1.Byte	High byte process date
2.Byte	Low byte process date
3.Byte	Status: 0x80 -> sent data valid / otherwise invalid

## 7 Examples

Using job identification (AKZ) and parameter number (PNU) (1. Config Byte = 0xF3)

- 1.) Reading DR2210 PNU 100 [0x64]  
(Device value: Parameter tF = 3.000)

	Master -> Slave (command)		Slave -> Master (reply)	
1.Byte	1	0	2	0
2.Byte	0x64		0x64	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0x40	
6.Byte	0		0x40	
7.Byte	0		0x00	
8.Byte	0		0x00	

- 2.) Reading DR2210 PNU 260 [0x104]  
(Device value: structure switch S38 = 1)

	Master -> Slave (command)		Slave -> Master (reply)	
1.Byte	1	1	1	1
2.Byte	0x04		0x04	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0	
8.Byte	0		0x01	



- 3.) Reading DR2210 PNU 520 [0x208] (if not via cyclical process data)  
 (device value: AA5 = 0,75 = 75 %)

	Master -> Slave (command)		Slave -> Master (reply)	
	1	2	1	2
1.Byte				
2.Byte	0x08		0x08	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0x30	
8.Byte	0		0x00	

- 4.) Reading DR2210 PNU 109 [0x6D] / description element 1  
 (reply according to device specific parameter tables)

	Master -> Slave (command)		Slave -> Master (reply)	
	4	0	3	0
1.Byte				
2.Byte	0x6D		0x6D	
3.Byte	1		1	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0x24	
8.Byte	0		0x08	

- 5.) Reading DR2210 PNU 380 [0x17C] / array element 2  
 (device value: FdeF Ar2=YES)

	Master->Slave (command)		Slave->Master (reply)	
	6	1	4	1
1.Byte				
2.Byte	0x7C		0x7C	
3.Byte	2		2	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0	
8.Byte	0		0x80	

- 6.) Writing "onpa" parameter VV1 = 2500 PNU 101 [0x65] and c7 = 10.00 PNU 399 [0x18F]  
 6.1.) Writing ST\_U Bit.1 = 1 -> writing of "onpa" parameters possible

	Master -> Slave (command)		Slave -> Master (reply)	
1.Byte	2	0	1	0
2.Byte	0x00		0x00	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0	
8.Byte	0x02		0x02	

- 6.2.) Writing 1st parameter

	Master -> Slave (command)		Slave -> Master (reply)	
1.Byte	3	0	1	0
2.Byte	0x65		0x65	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0x40		0x40	
6.Byte	0x20		0x20	
7.Byte	0x00		0x00	
8.Byte	0x00		0x00	

- 6.3.) Writing 2nd parameter

	Master -> Slave (command)		Slave -> Master (reply)	
1.Byte	2	1	1	1
2.Byte	0x8F		0x8F	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0x03		0x03	
8.Byte	0xE8		0xE8	

6.4.) Writing ST\_U Bit.1 = 0

	Master -> Slave (command)		Slave -> Master (reply)	
	2	0	1	0
1.Byte				
2.Byte	0		0	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0	
8.Byte	0x00		0x00	

Note:

as of software version -C4 of the modules it is possible to write single parameters without controlling with ST\_U for:

- DR19 from software version -B8 onwards
- DR20
- DR21 from software version -B3 onwards
- DR2210 from software version -C7 onwards
- DR2410 from software version -C7 onwards

7.) Writing "stru" parameter YS = 25 % PNU 162 [0xA2] and S266 = 10 PNU 497 [0x1F1]

7.1.) Writing ST\_U Bit.0 = 1 -> Writing of "stru" parameters possible

	Master -> Slave (command)		Slave -> Master (reply)	
	2	0	1	0
1.Byte				
2.Byte	0x00		0x00	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0	
8.Byte	0x01		0x01	

7.2.) Writing 1. Parameter

	Master -> Slave (command)		Slave -> Master (reply)	
	2	0	1	0
1.Byte				
2.Byte	0xA2		0xA2	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0x10		0x10	
8.Byte	0x00		0x00	

## 7.3.) Writing 2. Parameter

	Master -> Slave (command)		Slave -> Master (reply)	
1.Byte	2	1	1	1
2.Byte	0xF1		0xF1	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0	
8.Byte	0x0A		0x0A	

## 7.4.) Writing ST\_U Bit.0 = 0

	Master -> Slave (command)		Slave -> Master (reply)	
1.Byte	2	0	1	0
2.Byte	0		0	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0	
8.Byte	0x00		0x00	

## 8.) Reading DR2210 process variables x\_1 PNU 341 [0x155] via AKZ and PNU (device value for x = 35 %)

	Master -> Slave (command)		Slave -> Master (reply)	
1.Byte	1	1	1	1
2.Byte	0x55		0x55	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0		0x16	
8.Byte	0x00		0x66	

9.) Writing DR2210 process variables YH\_2 PNU 527 [0x20F] via AKZ and PNU (transmitted value = 11%)

1.Byte	Master -> Slave (command)		Slave -> Master (reply)	
	2	2	1	2
2.Byte	0x0F		0x0F	
3.Byte	0		0	
4.Byte	0		0	
5.Byte	0		0	
6.Byte	0		0	
7.Byte	0x07		0x07	
8.Byte	0x0A		0x0A	

10.) Reading cyclical of DR2210 of 4 process values in the following sequence:

Actual value 1 (x_1)	PNU 341 [0x155] value: 80 %
Setpoint (w_2)	PNU 349 [0x15D] value: 30 %
Analog input 1 (AE1)	PNU 363 [0x16B] value: -1 %
Analog output 9 (AA9)	PNU 524 [0x20C] value: 10 %

Config bytes: 0xF3 / 0x53 (for 4 (process data (PZD)) / 0x00

Extended parameterization (8 additional user parameters):  
(or writing once of the parameter numbers (PNU) 10 - 17)

1.Param.	0x01
2.Param.	0x55
3.Param.	0x01
4.Param.	0x5D
5.Param.	0x01
6.Param.	0x6B
7.Param.	0x02
8.Param.	0x0C

Slave -> Master (reply)		
1.Byte	x	x
2.Byte	x	
3.Byte	x	
4.Byte	x	
5.Byte	x	
6.Byte	x	
7.Byte	x	
8.Byte	x	
9.Byte	0x33	80 %
10.Byte	0x33	
11.Byte	0x13	30 %
12.Byte	0x33	
13.Byte	0xFF	-1 %
14.Byte	0x5C	
15.Byte	0x06	10 %
16.Byte	0x66	

Note:

the first 8 byte contain the reaction of a master request.  
If the 1st Config byte is = 0x00 these 8 byte will be cancelled.

11.) Writing cyclical of DR2210 of 4 process values in the following sequence:

Status Stes	PNU 373 [0x0175] value: 0x80
Setpoint 1 (w1es)	PNU 377 [0x0179] value: 40 %
Manual variable 1 (YH1)	PNU 379 [0x17B] value: 20 %
Manual variable 2 (YH2)	PNU 527 [0x020F] value: (don't care)

Config bytes: 0xF3 / 0x55 (for e.g. 6 PZDs) / 0x00 / 0xA2 / 0xA2 / 0xA2 / 0xA2

Extended parameterization (72 additional user parameters):  
(or writing once of the parameter numbers (PNU) 43 - 47)

65.Param	0x01
66.Param	0x75
67.Param	0x01
68.Param	0x79
69.Param	0x01
70.Param	0x7B
71.Param	0x02
72.Param	0x0F

Master -> Slave		
1.Byte	x	x
2.Byte	x	
3.Byte	x	
4.Byte	x	
5.Byte	x	
6.Byte	x	
7.Byte	x	
8.Byte	x	
9.Byte	0x00	
10.Byte	0x80	value: 0x80
11.Byte	0x80	status: valid
12.Byte	0x19	
13.Byte	0x99	value: 40 %
14.Byte	0x80	status: valid
15.Byte	0x0C	
16.Byte	0xCC	value: any
17.Byte	0x80	status: valid
18.Byte	x	
19.Byte	x	
20.Byte	0x00	status: invalid

## 8 Table of the DP communication objects

SIPART  
DR19

### 8.1 SIPART DR19

**Parameter "onPA"**

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array/ numb.	min value	max value				
100	00100100/ F1	0	1.000	1000	4 / 0	"tF "	** OFF	
101	00100000/ F1	0	0.100	10.00	0 / 0	"vv "		
102	00100000/ F1	0	0.100	100.0	0 / 0	"cP "		
103	00100000/ F1	0	1.000	9984	4 / 0	"tn "		
104	00100100/ F1	0	1.000	2992	4 / 0	"tv "	** OFF	
105	00100000/int16	0	0.0	10.0	0 /7FH	"AH "		
106	00100100/int16	0	0.0	100.0	0 /7FH	"Y0 "	** Auto	
107	00010000/int16	0	-10.0	110.0	0 /7FH	"SH1 "		
108	00010000/int16	0	-10.0	110.0	0 /7FH	"SH2 "		
109	00010000/int16	0	-10.0	110.0	0 /7FH	"SH3 "		
110	00010000/int16	0	-10.0	110.0	0 /7FH	"SH4 "		
111	00100000/int16	0	-10.0	110.0	0 /7FH	"YA "		
112	00100000/int16	0	-10.0	110.0	0 /7FH	"YE "		
113	00100100/F1	0	0.100	1000	4 / 0	"tP "	** off	
114	00100100/F1	0	0.100	1000	4 / 0	"tM "	** off	
115	00100000/int6	0	1	499	4 /-23	"tA "		
116	00100000/int6	0	1	499	4 /-23	"tE "		
117	00100100/ F1	0	0.100	1000	4 / 0	"t1 "	**OFF	
118	00100100/ F1	0	0.100	1000	4 / 0	"t2 "	**OFF	
119	00100100/ F1	0	0.100	1000	4 / 0	"t3 "	**OFF	
120	00100000/int16	0	-1999	9999	0 / -3	"c1 "		
121	00100000/int16	0	-1999	9999	0 / -3	"c2 "		
122	00100000/int16	0	-1999	9999	0 / -3	"c3 "		
123	00100000/int16	0	-1999	9999	0 / -3	"c4 "		

SIPART  
DR19

PNU (dec)	Description element (subindex)					Name	Note
	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index		
124	00100000/int16	0	-1999	9999	0 / -3	"c5 "	
125	00100000/int16	0	-999	999	0 / -2	"c6 "	
126	00100000/int16	0	1000	9999	0 / -3	"c7 "	
127	00100000/int16	0	1	99	4 / -1	"dr "	

**Parameter "oFPA"**

128	00010000/int16	0	0	3	0 / 0	"dp "	
129	00010000/int16	0	-1999	9999	0 / 0	"dA "	
130	00010000/int16	0	-1999	9999	0 / 0	"dE "	
131	00010000/int16	0	-110.0	110.0	0 /7FH	"A1 "	
132	00010000/int16	0	-110.0	110.0	0 /7FH	"A2 "	
133	00010000/int16	0	-110.0	110.0	0 /7FH	"A3 "	
134	00010000/int16	0	-110.0	110.0	0 /7FH	"A4 "	
135	00010000/int16	0	0.1	10.0	0 /7FH	"HA "	
136	00010000/int16	0	-10.0	110.0	0 /7FH	"SA "	
137	00010000/int16	0	-10.0	110.0	0 /7FH	"SE "	
138	00010100/ F1	0	0.100	9984	4 / 70	"tS "	** oFF
139	00010000/int16	0	0	9999	0 / -3	"vA "	
140	00010000/int16	0	0	9999	0 / -3	"vE "	
141	00010000/int16	0	-10.0	110.0	0 /7FH	"YS "	
142	00010000/int16	0	0.0	100.0	0 /7FH	"Y1 "	
143	00010000/int16	0	0.0	100.0	0 /7FH	"Y2 "	
144	00010000/int16	0	-10.0	110.0	0 /7FH	"L-1 "	
145	00010000/int16	0	-10.0	110.0	0 /7FH	"L0 "	
146	00010000/int16	0	-10.0	110.0	0 /7FH	"L1 "	
147	00010000/int16	0	-10.0	110.0	0 /7FH	"L2 "	
148	00010000/int16	0	-10.0	110.0	0 /7FH	"L3 "	



PNU (dec)	Description element (subindex)					Name	Note
	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index		
149	00010000/int16	0	-10.0	110.0	0 /7FH	"L4 "	
150	00010000/int16	0	-10.0	110.0	0 /7FH	"L5 "	
151	00010000/int16	0	-10.0	110.0	0 /7FH	"L6 "	
152	00010000/int16	0	-10.0	110.0	0 /7FH	"L7 "	
153	00010000/int16	0	-10.0	110.0	0 /7FH	"L8 "	
154	00010000/int16	0	-10.0	110.0	0 /7FH	"L9 "	
155	00010000/int16	0	-10.0	110.0	0 /7FH	"L10 "	
156	00010000/int16	0	-10.0	110.0	0 /7FH	"L11 "	

**Parameter "CAE1" / "CAE3"**

157	00010000/int16	0	0	9999	23/ -2	"Mr1 "	
158	00010000/int16	0	0.0	4000	17/ -1	"tb1 "	
159	00010000/int16	0	0	3	0 / 0	"Mp1 "	
160	00010000/int16	0	-1999	9999	0 / 0	"MA1 "	
161	00010000/int16	0	-1999	9999	0 / 0	"ME1 "	
162	00010000/int16	0	0	9999	23/ -2	"Mr3 "	
163	00010000/int16	0	0.0	4000	17/ -1	"tb3 "	
164	00010000/int16	0	0	3	0 / 0	"Mp3 "	
165	00010000/int16	0	-1999	9999	0 / 0	"MA3 "	
166	00010000/int16	0	-1999	9999	0 / 0	"ME3 "	

**Structure switches "StrS"**

167	00010000/int16	0	0	7	0 / 0	"S1 "	
168	00010000/int16	0	0	3	0 / 0	"S2 "	
169	00010000/int16	0	0	1	0 / 0	"S3 "	
170	00010000/int16	0	0	3	0 / 0	"S4 "	

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PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
171	00010000/int16	0	0	7	0 / 0	"S5 "		
172	00010000/int16	0	0	10	0 / 0	"S6 "		
173	00010000/int16	0	0	2	0 / 0	"S7 "		
174	00010000/int16	0	0	3	0 / 0	"S8 "		
175	00010000/int16	0	0	7	0 / 0	"S9 "		
176	00010000/int16	0	0	7	0 / 0	"S10 "		
177	00010000/int16	0	0	10	0 / 0	"S11 "		
178	00010000/int16	0	0	1	0 / 0	"S12 "		
179	00010000/int16	0	0	1	0 / 0	"S13 "		
180	00010000/int16	0	0	1	0 / 0	"S14 "		
181	00010000/int16	0	0	3	0 / 0	"S15 "		
182	00010000/int16	0	0	3	0 / 0	"S16 "		
183	00010000/int16	0	0	3	0 / 0	"S17 "		
184	00010000/int16	0	0	3	0 / 0	"S18 "		
185	00010000/int16	0	0	3	0 / 0	"S19 "		
186	00010000/int16	0	0	3	0 / 0	"S20 "		
187	00010000/int16	0	0	4	0 / 0	"S21 "		
188	00010000/int16	0	0	3	0 / 0	"S22 "		
189	00010000/int16	0	0	8	0 / 0	"S23 "		
190	00010000/int16	0	0	7	0 / 0	"S24 "		
191	00010000/int16	0	0	7	0 / 0	"S25 "		
192	00010000/int16	0	0	7	0 / 0	"S26 "		
193	00010000/int16	0	0	8	0 / 0	"S27 "		
194	00010000/int16	0	0	7	0 / 0	"S28 "		
195	00010000/int16	0	0	7	0 / 0	"S29 "		
196	00010000/int16	0	0	7	0 / 0	"S30 "		
197	00010000/int16	0	0	7	0 / 0	"S31 "		

Description element (subindex)							
PNU (dec)	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index	Name	Note
198	00010000/int16	0	0	7	0 / 0	"S32 "	
199	00010000/int16	0	0	7	0 / 0	"S33 "	
200	00010000/int16	0	0	8	0 / 0	"S34 "	
201	00010000/int16	0	0	1	0 / 0	"S35 "	
202	00010000/int16	0	0	1	0 / 0	"S36 "	
203	00010000/int16	0	0	1	0 / 0	"S37 "	
204	00010000/int16	0	0	1	0 / 0	"S38 "	
205	00010000/int16	0	0	1	0 / 0	"S39 "	
206	00010000/int16	0	0	1	0 / 0	"S40 "	
207	00010000/int16	0	0	1	0 / 0	"S41 "	
208	00010000/int16	0	0	2	0 / 0	"S42 "	
209	00010000/int16	0	0	2	0 / 0	"S43 "	
210	00010000/int16	0	0	1	0 / 0	"S44 "	
211	00010000/int16	0	0	1	0 / 0	"S45 "	
212	00010000/int16	0	0	2	0 / 0	"S46 "	
213	00010000/int16	0	0	1	0 / 0	"S47 "	
214	00010000/int16	0	0	4	0 / 0	"S48 "	
215	00010000/int16	0	0	2	0 / 0	"S49 "	
216	00010000/int16	0	0	1	0 / 0	"S50 "	
217	00010000/int16	0	0	2	0 / 0	"S51 "	
218	00010000/int16	0	0	4	0 / 0	"S52 "	
219	00010000/int16	0	0	1	0 / 0	"S53 "	
220	00010000/int16	0	0	1	0 / 0	"S54 "	
221	00010000/int16	0	0	3	0 / 0	"S55 "	
222	00010000/int16	0	0	1	0 / 0	"S56 "	
223	00010000/int16	0	0	17	0 / 0	"S57 "	1.)
224	00010000/int16	0	0	3	0 / 0	"S58 "	

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PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
225	00010000/int16	0	0	8	0 / 0	"S59 "		
226	00010000/int16	0	0	8	0 / 0	"S60 "		
227	00010000/int16	0	0	8	0 / 0	"S61 "		
228	00010000/int16	0	0	8	0 / 0	"S62 "		
229	00010000/int16	0	0	8	0 / 0	"S63 "		
230	00010000/int16	0	0	8	0 / 0	"S64 "		
231	00010000/int16	0	0	8	0 / 0	"S65 "		
232	00010000/int16	0	0	8	0 / 0	"S66 "		
233	00010000/int16	0	0	8	0 / 0	"S67 "		
234	00010000/int16	0	0	8	0 / 0	"S68 "		
235	00010000/int16	0	0	8	0 / 0	"S69 "		
236	00010000/int16	0	0	8	0 / 0	"S70 "		
237	00010000/int16	0	0	8	0 / 0	"S71 "		
238	00010000/int16	0	0	8	0 / 0	"S72 "		
239	00010000/int16	0	0	8	0 / 0	"S73 "		
240	00010000/int16	0	0	8	0 / 0	"S74 "		
241	00010000/int16	0	0	8	0 / 0	"S75 "		
242	00010000/int16	0	0	1	0 / 0	"S76 "		
243	00010000/int16	0	0	1	0 / 0	"S77 "		
244	00010000/int16	0	0	1	0 / 0	"S78 "		
245	00010000/int16	0	0	1	0 / 0	"S79 "		
246	00010000/int16	0	0	1	0 / 0	"S80 "		
247	00010000/int16	0	0	1	0 / 0	"S81 "		
248	00010000/int16	0	0	1	0 / 0	"S82 "		
249	00010000/int16	0	0	15	0 / 0	"S83 "   2.)		
250	00010000/int16	0	0	15	0 / 0	"S84 "   2.)		
251	00010000/int16	0	0	2	0 / 0	"S85 "		

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
252	00010000/int16	0	0	2	0 / 0	"S86 "		
253	00010000/int16	0	0	6	0 / 0	"S87 "		
254	00010000/int16	0	0	7	0 / 0	"S88 "		
255	00010000/int16	0	0	11	0 / 0	"S89 "		
256	00010000/int16	0	0	1	0 / 0	"S90 "		
257	00010000/int16	0	0	1	0 / 0	"S91 "		
258	00010010/int16	0	0	1	0 / 0	"S92 "		
259	00010010/int16	0	0	5	0 / 0	"S93 "		
260	00010010/int16	0	0	5	0 / 0	"S94 "		
261	00010010/int16	0	0	1	0 / 0	"S95 "		
262	00010010/int16	0	0	2	0 / 0	"S96 "		
263	00010010/int16	0	0	1	0 / 0	"S97 "		
264	00010010/int16	0	0	125	0 / 0	"S98 "		
265	00010010/int16	0	0	25	0 / 0	"S99 "		
343	00010010/int16	0	0	7	0 / 0	"S100"	3.)	

- 1.) max value from software -B5 onwards
- 2.) max value from Software -B9 onwards
- 3.) from software -B9 onwards

**Process values (read only)**

266	10000010/bs2	0	0	FFFF	0 / 0	"BABE"	1)
267	10000010/int16	0	-199.9	199.9	0 /7FH	"Y1_P"	
268	10000010/int16	0	-199.9	199.9	0 /7FH	"Y2_P"	
269	10000010/int16	0	-199.9	199.9	0 /7FH	"Y_P "	
270	10000010/int16	0	-199.9	199.9	0 /7FH	"xd "	
271	10000010/int16	0	-199.9	199.9	0 /7FH	"x1 "	
272	10000010/int16	0	-199.9	199.9	0 /7FH	"x "	

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PNU (dec)	Description element (subindex)					Name	Note
	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index		
273	10000010/int16	0	-199.9	199.9	0 /7FH	"w "	
274	10000010/int16	0	-199.9	199.9	0 /7FH	"wi1 "	
275	10000010/int16	0	-199.9	199.9	0 /7FH	"wi2 "	
276	10000010/int16	0	-199.9	199.9	0 /7FH	"xv "	
277	10000010/int16	0	-199.9	199.9	0 /7FH	"wv "	
278	10000010/int16	0	-199.9	199.9	0 /7FH	"AE1A"	
279	10000010/int16	0	-199.9	199.9	0 /7FH	"AE2A"	
280	10000010/int16	0	-199.9	199.9	0 /7FH	"AE3A"	
281	10000010/int16	0	-199.9	199.9	0 /7FH	"AE1 "	
282	10000010/int16	0	-199.9	199.9	0 /7FH	"AE2 "	
283	10000010/int16	0	-199.9	199.9	0 /7FH	"AE3 "	
284	10000010/bs16	0	0	FFFF	0 / 0	"ST6 "   2)	
285	10000010/bs16	0	0	3FFF	0 / 0	"STN "   3)	
286	-----						n.def.

**Processdata (read-/writeable)**

287	10000000/int16	0	-10.0	110.0	0 /7FH	"w_es"	
288	10000000/bs16	0	0	00FFH	0 / 0	"ST3 "   4)	
289	10000000/int16	0	-10.0	110.0	0 /7FH	"Y_es"	
290	10000000/bs16	0	0	FFFFH	0 / 0	"ST4 "   5)	
291	10000000/int16	0	-10.0	110.0	0 /7FH	"wles"	
292	10000000/int16	0	-10.0	110.0	0 /7FH	"w2es"	
293	10000000/int16	0	-10.0	110.0	0 /7FH	"yHes"	

**Processdata clock (read only)**

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
294	10000010/bs16	0	0	FFFFH	0 / 0	"ST8 "	6)	
295	10000010/bs16	0	0	00FFH	0 / 0	"ST10"	7)	
296	10000010/os2	0	0	59/59	4 / 0	"TR "		
297	10000010/int16	0	-199.9	199.9	0 /7FH	"WPZ "		

**Parameter "CLPA"**

298	00010000/int16	0	0	3	0 / 0	"PRSE"	
299	00010100/int16	0	0.1	10.0	0 /7FH	"HOLD"	off
300	00010000/int16	0	0	1	0 / 0	"CLFo"	
301	00010000/os2	0	00/00	59/59	4 / 0	"t011"	
302	00010000/os2	0	00/00	59/59	4 / 0	"t021"	
303	00010000/os2	0	00/00	59/59	4 / 0	"t031"	
304	00010000/os2	0	00/00	59/59	4 / 0	"t041"	
305	00010000/os2	0	00/00	59/59	4 / 0	"t051"	
306	00010000/os2	0	00/00	59/59	4 / 0	"t061"	
307	00010000/os2	0	00/00	59/59	4 / 0	"t071"	
308	00010000/os2	0	00/00	59/59	4 / 0	"t081"	
309	00010000/os2	0	00/00	59/59	4 / 0	"t091"	
310	00010000/os2	0	00/00	59/59	4 / 0	"t101"	
311	00010000/os2	0	00/00	59/59	4 / 0	"t012"	
312	00010000/os2	0	00/00	59/59	4 / 0	"t022"	
313	00010000/os2	0	00/00	59/59	4 / 0	"t032"	
314	00010000/os2	0	00/00	59/59	4 / 0	"t042"	
315	00010000/os2	0	00/00	59/59	4 / 0	"t052"	
316	00010100/int16	0	-10.0	110.0	0 /7FH	"A011"	nop

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PNU (dec)	Description element (subindex)					Name	Note
	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index		
317	00010100/int16	0	-10.0	110.0	0 /7FH	"A021"	nop
318	00010100/int16	0	-10.0	110.0	0 /7FH	"A031"	nop
319	00010100/int16	0	-10.0	110.0	0 /7FH	"A041"	nop
320	00010100/int16	0	-10.0	110.0	0 /7FH	"A051"	nop
321	00010100/int16	0	-10.0	110.0	0 /7FH	"A061"	nop
322	00010100/int16	0	-10.0	110.0	0 /7FH	"A071"	nop
323	00010100/int16	0	-10.0	110.0	0 /7FH	"A081"	nop
324	00010100/int16	0	-10.0	110.0	0 /7FH	"A091"	nop
325	00010100/int16	0	-10.0	110.0	0 /7FH	"A101"	nop
326	00010100/int16	0	-10.0	110.0	0 /7FH	"A012"	nop
327	00010100/int16	0	-10.0	110.0	0 /7FH	"A022"	nop
328	00010100/int16	0	-10.0	110.0	0 /7FH	"A032"	nop
329	00010100/int16	0	-10.0	110.0	0 /7FH	"A042"	nop
330	00010100/int16	0	-10.0	110.0	0 /7FH	"A052"	nop
331	00010000/bs16	0	0000	FF07	0 /0	"1.1 "	
332	00010000/bs16	0	0000	FF07	0 /0	"2.1 "	
333	00010000/bs16	0	0000	FF07	0 /0	"3.1 "	
334	00010000/bs16	0	0000	FF07	0 /0	"4.1 "	
335	00010000/bs16	0	0000	FF07	0 /0	"5.1 "	
336	00010000/bs16	0	0000	FF07	0 /0	"6.1 "	
337	00010000/bs16	0	0000	003F	0 /0	"1.2 "	
338	00010000/bs16	0	0000	003F	0 /0	"2.2 "	
339	00010000/bs16	0	0000	003F	0 /0	"3.2 "	
340	00010000/bs16	0	0000	003F	0 /0	"4.2 "	
341	00010000/bs16	0	0000	003F	0 /0	"5.2 "	
342	00010000/bs16	0	0000	003F	0 /0	"6.2 "	



**Meaning of the bits :**-----  
1.) PNU 266: binary outputs / inputs "BABE "

BIT 15 : BA8	BIT 7: ---
BIT 14 : BA7	BIT 6: BE7
BIT 13 : BA6	BIT 5: BE6
BIT 12 : BA5	BIT 4: BE5
BIT 11 : BA4	BIT 3: BE4
BIT 10 : BA3	BIT 2: BE3
BIT 9 : BA2	BIT 1: BE2
BIT 8 : BA1	BIT 0: BE1

-----  
2.) PNU284: Status "ST6"

BIT 15 : CB	BIT 7: BLS
BIT 14 : H	BIT 6: BLPS
BIT 13 : Si	BIT 5: BLB
BIT 12 : N	BIT 4: PU (clock)
BIT 11 : P/PI	BIT 3: last change H/I
BIT 10 : TS	BIT 2: MUF3
BIT 9 : +yBL	BIT 1: MUF2
BIT 8 : -yBL	BIT 0: MUF1

-----  
3.) PNU285: Status "STN"

BIT 15 : manual val. changed	BIT 7: X
BIT 14 : TSH	BIT 6: X
BIT 13 : MUFS	BIT 5: N
BIT 12 : Option Error	BIT 4: Intern
BIT 11 : A4	BIT 3: H (intern)
BIT 10 : A3	BIT 2: H (extern)
BIT 9 : A2	BIT 1: H
BIT 8 : A1	BIT 0: Yext

function BIT 15 from software -B8 onwards  
function BIT 14 from software -B9 onwards

-----  
4.) PNU 288: Status "ST3" (writeable)

BIT 15 : 0	BIT 7: CB
BIT 14 : 0	BIT 6: H
BIT 13 : 0	BIT 5: Si
BIT 12 : 0	BIT 4: N
BIT 11 : 0	BIT 3: P/PI
BIT 10 : 0	BIT 2: tS
BIT 9 : 0	BIT 1: +yBL
BIT 8 : 0	BIT 0: -yBL

SIPART DR19 5.) PNU 290: Status "ST4 " (writeable)

BIT 15 : BLS	BIT 7 : BA8
BIT 14 : BLPS	BIT 6 : BA7
BIT 13 : INTes	BIT 5 : BA6
BIT 12 : PU (clock)	BIT 4 : BA5
BIT 11 : x	BIT 3 : BA4
BIT 10 : x	BIT 2 : BA3
BIT 9 : TS_Stop	BIT 1 : BA2
BIT 8 : BLB	BIT 0 : BA1

function BIT 9 from software -B9 onwards  
function BIT 8 from software -B7 onwards

6.) PNU294: Status "ST8 "

BIT 15 : 0	BIT 7: scheduler reset/start
BIT 14 : 0	BIT 6: cloc stopped/running
BIT 13 : 0	BIT 5: interval held/running
BIT 12 : 0	BIT 4: Hold operational
BIT 11 : Interval-	BIT 3: 1st/2nd. half of interval
BIT 10 : no.	BIT 2: Programm 1/2
BIT 9 : scheduler	BIT 1: 0
BIT 8 : x	BIT 0: scheduler present (=1)

7.) PNU295: Status "ST10"

BIT 15 : 0	BIT 7: 0
BIT 14 : 0	BIT 6: 0
BIT 13 : 0	BIT 5: BA Cloc Clb6
BIT 12 : 0	BIT 4: Clb5
BIT 11 : 0	BIT 3: Clb4
BIT 10 : 0	BIT 2: Clb3
BIT 9 : 0	BIT 1: Clb2
BIT 8 : 0	BIT 0: Clb1

## 8.2 SIPART DR20

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### Parameter

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
0000	76543210/							
100	00100000/ F1	0	1.000	10.00	0 / 0	"vv "		
101	00100000/ F1	0	0.100	100.0	0 / 0	"cP "		
102	00100000/ F1	0	1.000	9984	4 / 0	"tn "		
103	00100100/int16	0	0.0	99.5	0 / 7FH	"Y0 "	auto	
104	00100100/ F1	0	1.000	1000	4 / 0	"tv "	** OFF	
105	00100100/ F1	0	1.000	1000	4 / 0	"tF "	** OFF	
106	00100100/ F1	0	1.000	9984	4 / 0	"tS "	** OFF	
107	00100000/ F1	0	1.000	1000	4 / 0	"tY "		
108	00100000/ F1	0	1.000	1000	4 / 0	"t- "		
109	00100000/int16	0	-1999	9999	0 / 0	"LA "		
110	00100000/int16	0	-1999	9999	0 / 0	"L1 "		
111	00100000/int16	0	-1999	9999	0 / 0	"L2 "		
112	00100000/int16	0	-1999	9999	0 / 0	"L3 "		
113	00100000/int16	0	-1999	9999	0 / 0	"L4 "		
114	00100000/int16	0	-1999	9999	0 / 0	"L5 "		
115	00100000/int16	0	-1999	9999	0 / 0	"L6 "		
116	00100000/int16	0	-1999	9999	0 / 0	"L7 "		
117	00100000/int16	0	-1999	9999	0 / 0	"LE "		
118	00100000/int16	0	-1999	9999	0 / 0	"SA "		
119	00100000/int16	0	-1999	9999	0 / 0	"SE "		
120	00100000/int16	0	-1999	9999	0 / 0	"SH "		
121	00100000/int16	0	-1999	9999	0 / 0	"A2 "		
122	00100000/int16	0	-1999	9999	0 / 0	"A1 "		
123	00100000/int16	0	0.0	10.0	0 / 7FH	"A "		

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PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
124	00100000/int16	0	-10.0	110.0		0 / 7FH	"YA "	
125	00100000/int16	0	-10.0	110.0		0 / 7FH	"YE "	
126	00100000/int16	0	-10.0	110.0		0 / 7FH	"YS "	
127	00100000/int16	0	-199.9	199.9		0 / 7FH	"c1 "	
128	00100000/int16	0	-199.9	199.9		0 / 7FH	"c2 "	

**structure switches**

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
129	00010000/int16	0	0	10		0 / 0	"S1 "	
130	00010000/int16	0	0	3		0 / 0	"S2 "	
131	00010000/int16	0	0	1		0 / 0	"S3 "	
132	00010000/int16	0	0	1		0 / 0	"S4 "	
133	00010000/int16	0	0	1		0 / 0	"S5 "	
134	00010000/int16	0	0	1		0 / 0	"S6 "	
135	00010000/int16	0	0	1		0 / 0	"S7 "	
136	00010000/int16	0	0	1		0 / 0	"S8 "	
137	00010000/int16	0	0	1		0 / 0	"S9 "	
138	00010000/int16	0	-2	1		0 / 0	"S10 "	
139	00010000/int16	0	0	7		0 / 0	"S11 "	
140	00010000/int16	0	0	1		0 / 0	"S12 "	
141	00010000/int16	0	0	1		0 / 0	"S13 "	
142	00010000/int16	0	0	1		0 / 0	"S14 "	
143	00010000/int16	0	0	11		0 / 0	"S15 "	
144	00010000/int16	0	0	1		0 / 0	"S16 "	
145	00010000/int16	0	0	1		0 / 0	"S17 "	
146	00010000/int16	0	0	1		0 / 0	"S18 "	
147	00010000/int16	0	0	1		0 / 0	"S19 "	
148	00010000/int16	0	-1	2		0 / 0	"S20 "	

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
149	00010100/int16	0	-3	2	0 / 0	"S21 "	off	
150	00010000/int16	0	0	2	0 / 0	"S22 "		
151	00010000/int16	0	0	5	0 / 0	"S23 "		
152	00010000/int16	0	0	1	0 / 0	"S24 "		
153	00010100/int16	0	-2	7	0 / 0	"S25 "	off	
154	00010000/int16	0	0	1	0 / 0	"S26 "		
155	00010000/int16	0	0	3	0 / 0	"S27 "		
156	00010000/int16	0	0	1	0 / 0	"S28 "		
157	00010000/int16	0	0	1	0 / 0	"S29 "		
158	00010000/int16	0	0	2	0 / 0	"S30 "		
159	00010000/int16	0	0	2	0 / 0	"S31 "		
160	00010100/int16	0	0	2	0 / 0	"S32 "	off	
161	00010000/int16	0	0	1	0 / 0	"S33 "		
162	00010000/int16	0	0	4	0 / 0	"S34 "		
163	00010000/int16	0	0	1	0 / 0	"S35 "		
164	00010000/int16	0	0	1	0 / 0	"S36 "		
165	00010000/int16	0	0	1	0 / 0	"S37 "		
166	00010000/int16	0	0	1	0 / 0	"S38 "		
167	00010000/int16	0	-9	10	0 / 0	"S39 "		
168	00010000/int16	0	-9	10	0 / 0	"S40 "		
169	00010000/int16	0	0	7	0 / 0	"S41 "		
170	00010010/int16	0	0	3	0 / 0	"S42 "		
171	00010010/int16	0	0	5	0 / 0	"S43 "		
172	00010010/int16	0	0	1	0 / 0	"S44 "		
173	00010010/int16	0	0	2	0 / 0	"S45 "		
174	00010010/int16	0	0	1	0 / 0	"S46 "		
175	00010010/int16	0	0	31	0 / 0	"S47 "		
176	00010010/int16	0	0	25	0 / 0	"S48 "		

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DR20**processvalues (read only)**

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
177	10000010/int16	0	-199.9	199.9	0	/7FH	"AE1 "	
178	10000010/int16	0	-199.9	199.9	0	/7FH	"AE2 "	
179	10000010/int16	0	-199.9	199.9	0	/7FH	"AE3 "	
180	10000010/int16	0	-199.9	199.9	0	/7FH	"AE4 "	
181	10000010/int16	0	-199.9	199.9	0	/7FH	"w "	
182	10000010/int16	0	-199.9	199.9	0	/7FH	"x "	
183	10000010/int16	0	-199.9	199.9	0	/7FH	"Y "	
184	10000010/int16	0	- 1999	9999	0	/0	"wi "	
185	10000010/int16	0	-199.9	199.9	0	/7FH	"xd "	
186	10000010/int16	0	-1999	9999	0	/-3	"xv "	
187	10000010/int16	0	-1999	9999	0	/-3	"wv "	
188	10000010/bs16	0	0	FFFF	0	/ 0	"STrd"   1)	

**processvalues (read-/writeable)**

189	10000000/bs16	0	0	00FF	0	/ 0	"STes"   2)	
190	10000000/int16	0	-10.0	110.0	0	/7FH	"w_es"	
191	10000000/int16	0	-10.0	110.0	0	/7FH	"Y_es"	

**Bedeutung der Einzelbits:**

1.) PNU 188: Status "STrd" ( STBE/STN ):

BIT 15 : CB	BIT 7: x
BIT 14 : BL	BIT 6: x
BIT 13 : Si	BIT 5: MUF
BIT 12 : N	BIT 4: INT
BIT 11 : BE (binary input)	BIT 3: A2
BIT 10 : x	BIT 2: A1
BIT 9 : x	BIT 1: H
BIT 8 : x	BIT 0: Yext

## 2.) PNU 189: Status "STes" (writeable)

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BIT 15 : x	BIT 7: CB
BIT 14 : x	BIT 6: BL
BIT 13 : x	BIT 5: Si
BIT 12 : x	BIT 4: N
BIT 11 : x	BIT 3: x
BIT 10 : x	BIT 2: x
BIT 9 : x	BIT 1: x
BIT 8 : x	BIT 0: BA (binary output)

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DR21**8.3 SIPART DR21****Parameter "onPA"**

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array/ numb.	min value	max value				
0000	76543210/							
100	00100100/ F1	0	1.000	1000	4 / 0	"tF "	** OFF	
101	00100000/ F1	0	0.100	10.00	0 / 0	"vv "		
102	00100000/ F1	0	0.100	100.0	0 / 0	"cP "		
103	00100000/ F1	0	1.000	9984	4 / 0	"tn "		
104	00100100/ F1	0	1.000	2992	4 / 0	"tv "	** OFF	
105	00100000/int16	0	0.0	10.0	0 / 7FH	"AH "		
106	00100100/int16	0	0.0	100.0	0 / 7FH	"Y0 "	** Auto	
107	00100000/int16	0	-10.0	110.0	0 / 7FH	"YA "		
108	00100000/int16	0	-10.0	110.0	0 / 7FH	"YE "		
109	00100100/F1	0	0.100	1000	4 / 0	"tP "	** off	
110	00100100/F1	0	0.100	1000	4 / 0	"tM "	** off	
111	00100000/int16	0	1	499	4 /-23	"tA "		
112	00100000/int16	0	1	499	4 /-23	"tE "		
113	00100100/ F1	0	0.100	1000	4 / 0	"t1 "	**OFF	
114	00100100/ F1	0	0.100	1000	4 / 0	"t2 "	**OFF	
115	00100100/ F1	0	0.100	1000	4 / 0	"t3 "	**OFF	
116	00100100/ F1	0	0.100	1000	4 / 0	"t4 "	**OFF	
117	00100000/int16	0	-1999	9999	0 / -3	"c1 "		
118	00100000/int16	0	-1999	9999	0 / -3	"c2 "		
119	00100000/int16	0	-1999	9999	0 / -3	"c3 "		
120	00100000/int16	0	-1999	9999	0 / -3	"c4 "		



PNU (dec)	Description element (subindex)					Name	Note
	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index		
121	00100000/int16	0	-1999	9999	0 / -3	"c5 "	
122	00100000/int16	0	-999	999	0 / -2	"c6 "	
123	00100000/int16	0	1000	9999	0 / -3	"c7 "	
124	00100000/int16	0	1	99	4 / -1	"dr "	

**Parameter "oFPA"**

125	00010000/int16	0	0	3	0 / 0	"dp "	
126	00010000/int16	0	-1999	9999	0 / 0	"dA "	
127	00010000/int16	0	-1999	9999	0 / 0	"dE "	
128	00010000/int16	0	-110.0	110.0	0 /7FH	"A1 "	
129	00010000/int16	0	-110.0	110.0	0 /7FH	"A2 "	
130	00010000/int16	0	-110.0	110.0	0 /7FH	"A3 "	
131	00010000/int16	0	-110.0	110.0	0 /7FH	"A4 "	
132	00010000/int16	0	0.1	10.0	0 /7FH	"HA "	
133	00010000/int16	0	-10.0	110.0	0 /7FH	"SA "	
134	00010000/int16	0	-10.0	110.0	0 /7FH	"SE "	
135	00010000/int16	0	-10.0	110.0	0 /7FH	"SH "	
136	00010100/ F1	0	0.100	9984	4 / 70	"tS "	** OFF
137	00010000/int16	0	0	9999	0 / -3	"vA "	
138	00010000/int16	0	0	9999	0 / -3	"vE "	
139	00010000/int16	0	-10.0	110.0	0 /7FH	"YS "	
140	00010000/int16	0	0.0	100.0	0 /7FH	"Y1 "	
141	00010000/int16	0	0.0	100.0	0 /7FH	"Y2 "	
142	00010000/int16	0	-10.0	110.0	0 /7FH	"L-1 "	
143	00010000/int16	0	-10.0	110.0	0 /7FH	"L0 "	

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PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
144	00010000/int16	0	-10.0	110.0	0	/7FH	"L1 "	
145	00010000/int16	0	-10.0	110.0	0	/7FH	"L2 "	
146	00010000/int16	0	-10.0	110.0	0	/7FH	"L3 "	
147	00010000/int16	0	-10.0	110.0	0	/7FH	"L4 "	
148	00010000/int16	0	-10.0	110.0	0	/7FH	"L5 "	
149	00010000/int16	0	-10.0	110.0	0	/7FH	"L6 "	
150	00010000/int16	0	-10.0	110.0	0	/7FH	"L7 "	
151	00010000/int16	0	-10.0	110.0	0	/7FH	"L8 "	
152	00010000/int16	0	-10.0	110.0	0	/7FH	"L9 "	
153	00010000/int16	0	-10.0	110.0	0	/7FH	"L10 "	
154	00010000/int16	0	-10.0	110.0	0	/7FH	"L11 "	
281	00010000/int16	0	0	3	0	/ 0	"Pd "	1.)
282	00010000/int16	0	-1999	9999	0	/ 0	"Ad "	1.)
283	00010000/int16	0	-1999	9999	0	/ 0	"Ed "	1.)

1.) from software version -B2 onwards

**Parameter "CAE3"**

155	00010000/int16	0	0	9999	23/	-2	"Mr "	
156	00010000/int16	0	0	4000	17/	-1	"tb "	
157	00010000/int16	0	0	3	0	/ 0	"MP "	
158	00010000/int16	0	-1999	9999	0	/ 0	"MA "	
159	00010000/int16	0	-1999	9999	0	/ 0	"ME "	

**structur switches "StrS"**

PNU (dec)	Description element (subindex)				variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value			
160	00010000/int16	0	0	6	0 / 0	"S1 "	
161	00010000/int16	0	0	3	0 / 0	"S2 "	
162	00010000/int16	0	0	1	0 / 0	"S3 "	
163	00010000/int16	0	0	3	0 / 0	"S4 "	
164	00010000/int16	0	0	3	0 / 0	"S5 "	
165	00010000/int16	0	0	7	0 / 0	"S6 "	
166	00010000/int16	0	0	3	0 / 0	"S7 "	
167	00010000/int16	0	0	7	0 / 0	"S8 "	
168	00010000/int16	0	0	10	0 / 0	"S9 "	
169	00010000/int16	0	0	2	0 / 0	"S10 "	
170	00010000/int16	0	0	1	0 / 0	"S11 "	
171	00010000/int16	0	0	1	0 / 0	"S12 "	
172	00010000/int16	0	0	1	0 / 0	"S13 "	
173	00010000/int16	0	0	1	0 / 0	"S14 "	
174	00010000/int16	0	0	4	0 / 0	"S15 "	
175	00010000/int16	0	0	4	0 / 0	"S16 "	
176	00010000/int16	0	0	4	0 / 0	"S17 "	
177	00010000/int16	0	0	4	0 / 0	"S18 "	
178	00010000/int16	0	0	4	0 / 0	"S19 "	
179	00010000/int16	0	0	4	0 / 0	"S20 "	
180	00010000/int16	0	0	5	0 / 0	"S21 "	
181	00010000/int16	0	0	3	0 / 0	"S22 "	
182	00010000/int16	0	0	8	0 / 0	"S23 "	
183	00010000/int16	0	0	7	0 / 0	"S24 "	

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PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
184	00010000/int16	0	0	7	0 / 0	"S25 "		
185	00010000/int16	0	0	7	0 / 0	"S26 "		
186	00010000/int16	0	0	8	0 / 0	"S27 "		
187	00010000/int16	0	0	7	0 / 0	"S28 "		
188	00010000/int16	0	0	7	0 / 0	"S29 "		
189	00010000/int16	0	0	7	0 / 0	"S30 "		
190	00010000/int16	0	0	7	0 / 0	"S31 "		
191	00010000/int16	0	0	7	0 / 0	"S32 "		
192	00010000/int16	0	0	7	0 / 0	"S33 "		
193	00010000/int16	0	0	1	0 / 0	"S34 "		
194	00010000/int16	0	0	1	0 / 0	"S35 "		
195	00010000/int16	0	0	1	0 / 0	"S36 "		
196	00010000/int16	0	0	1	0 / 0	"S37 "		
197	00010000/int16	0	0	1	0 / 0	"S38 "		
198	00010000/int16	0	0	1	0 / 0	"S39 "		
199	00010000/int16	0	0	1	0 / 0	"S40 "		
200	00010000/int16	0	0	2	0 / 0	"S41 "		
201	00010000/int16	0	0	2	0 / 0	"S42 "		
202	00010000/int16	0	0	1	0 / 0	"S43 "		
203	00010000/int16	0	0	1	0 / 0	"S44 "		
204	00010000/int16	0	0	1	0 / 0	"S45 "		
205	00010000/int16	0	0	1	0 / 0	"S46 "		
206	00010000/int16	0	0	4	0 / 0	"S47 "		
207	00010000/int16	0	0	2	0 / 0	"S48 "		
208	00010000/int16	0	0	1	0 / 0	"S49 "		

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
209	00010000/int16	0	0	2	0 / 0	"S50 "		
210	00010000/int16	0	0	4	0 / 0	"S51 "		
211	00010000/int16	0	0	1	0 / 0	"S52 "		
212	00010000/int16	0	0	1	0 / 0	"S53 "		
213	00010000/int16	0	0	3	0 / 0	"S54 "		
214	00010000/int16	0	0	1	0 / 0	"S55 "		
215	00010000/int16	0	0	17	0 / 0	"S56 "	1.)	
216	00010000/int16	0	0	3	0 / 0	"S57 "		
217	00010000/int16	0	0	8	0 / 0	"S58 "		
218	00010000/int16	0	0	8	0 / 0	"S59 "		
219	00010000/int16	0	0	8	0 / 0	"S60 "		
220	00010000/int16	0	0	8	0 / 0	"S61 "		
221	00010000/int16	0	0	8	0 / 0	"S62 "		
222	00010000/int16	0	0	8	0 / 0	"S63 "		
223	00010000/int16	0	0	8	0 / 0	"S64 "		
224	00010000/int16	0	0	8	0 / 0	"S65 "		
225	00010000/int16	0	0	8	0 / 0	"S66 "		
226	00010000/int16	0	0	8	0 / 0	"S67 "		
227	00010000/int16	0	0	8	0 / 0	"S68 "		
228	00010000/int16	0	0	1	0 / 0	"S69 "		
229	00010000/int16	0	0	1	0 / 0	"S70 "		
230	00010000/int16	0	0	1	0 / 0	"S71 "		
231	00010000/int16	0	0	1	0 / 0	"S72 "		
232	00010000/int16	0	0	1	0 / 0	"S73 "		
233	00010000/int16	0	0	1	0 / 0	"S74 "		

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PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
234	00010000/int16	0	0	1	0 / 0	"S75 "		
235	00010000/int16	0	0	17	0 / 0	"S76 "	2.)	
236	00010000/int16	0	0	17	0 / 0	"S77 "	2.)	
237	00010000/int16	0	0	2	0 / 0	"S78 "		
238	00010000/int16	0	0	2	0 / 0	"S79 "		
239	00010000/int16	0	0	6	0 / 0	"S80 "		
240	00010000/int16	0	0	7	0 / 0	"S81 "	1.)	
241	00010000/int16	0	0	1	0 / 0	"S82 "		
242	00010000/int16	0	0	1	0 / 0	"S83 "		
243	00010010/int16	0	0	1	0 / 0	"S84 "		
244	00010010/int16	0	0	5	0 / 0	"S85 "		
245	00010010/int16	0	0	5	0 / 0	"S86 "		
246	00010010/int16	0	0	1	0 / 0	"S87 "		
247	00010010/int16	0	0	2	0 / 0	"S88 "		
248	00010010/int16	0	0	1	0 / 0	"S89 "		
249	00010010/int16	0	0	125	0 / 0	"S90 "		
250	00010010/int16	0	0	25	0 / 0	"S91 "		
284	00010010/int16	0	0	7	0 / 0	"S92"	2.)	

1.) from software version -B2 onwards

2.) from software version -B5 onwards

**processvalue (read only)**

PNU (dec)	Description element (subindex)				variabl/ convers. index	Name	Note
	Identification/ datatype	Array/ numb.	min value	max value			
251	10000010/bs16	0	0	FFFF	0 / 0	"BABE"	1)
252	10000010/int16	0	-199.9	199.9	0 /7FH	"Y1_P"	
253	10000010/int16	0	-199.9	199.9	0 /7FH	"Y2_P"	
254	10000010/int16	0	-199.9	199.9	0 /7FH	"Y_P "	
255	10000010/int16	0	-199.9	199.9	0 /7FH	"xd "	
256	10000010/int16	0	-199.9	199.9	0 /7FH	"x1 "	
257	10000010/int16	0	-199.9	199.9	0 /7FH	"x "	
258	10000010/int16	0	-199.9	199.9	0 /7FH	"w "	
259	10000010/int16	0	-199.9	199.9	0 /7FH	"wi1 "	
260	10000010/int16	0	-199.9	199.9	0 /7FH	"wi2 "	
261	10000010/int16	0	-199.9	199.9	0 /7FH	"xv "	
262	10000010/int16	0	-199.9	199.9	0 /7FH	"wv "	
263	10000010/int16	0	-199.9	199.9	0 /7FH	"AE1A"	
264	10000010/int16	0	-199.9	199.9	0 /7FH	"AE2A"	
265	10000010/int16	0	-199.9	199.9	0 /7FH	"AE3A"	
266	10000010/int16	0	-199.9	199.9	0 /7FH	"AE4A"	
267	10000010/int16	0	-199.9	199.9	0 /7FH	"AE1 "	
268	10000010/int16	0	-199.9	199.9	0 /7FH	"AE2 "	
269	10000010/int16	0	-199.9	199.9	0 /7FH	"AE3 "	
270	10000010/int16	0	-199.9	199.9	0 /7FH	"AE4 "	
271	10000010/bs16	0	0	FFFF	0 / 0	"ST6 "	2)
272	10000010/bs16	0	0	3FFF	0 / 0	"STN "	3)
273	-----	-	-	----	-----	-----	n. def.

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DR21processvalue (read-/writeable)

PNU (dec)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array/ numb.	min value	max value				
274	10000000/int16	0	-10.0	110.0	0	/7FH	"w_es"	
275	10000001/bs16	0	0	00FFH	0	/ 0	"ST3 "	4)
276	10000000/int16	0	-10.0	110.0	0	/7FH	"Y_es"	
277	10000001/bs16	0	0	FFFFH	0	/ 0	"ST4 "	5)
278	10000000/int16	0	-10.0	110.0	0	/7FH	"wles"	
279	10000000/int16	0	-10.0	110.0	0	/7FH	"w2es"	
280	10000000/int16	0	-10.0	110.0	0	/7FH	"YHes"	

**Meaning of the bits:**

## 1.) PNU 251: binary output / input "BABE"

BIT 15 : BA8	BIT 7: ---
BIT 14 : BA7	BIT 6: BE7
BIT 13 : BA6	BIT 5: BE6
BIT 12 : BA5	BIT 4: BE5
BIT 11 : BA4	BIT 3: BE4
BIT 10 : BA3	BIT 2: BE3
BIT 9 : BA2	BIT 1: BE2
BIT 8 : BA1	BIT 0: BE1

## 2.) PNU 271: Status "ST6"

BIT 15 : CB	BIT 7: BLS
BIT 14 : H	BIT 6: BLPS
BIT 13 : Si	BIT 5: BLB
BIT 12 : N	BIT 4: last change H/I
BIT 11 : P/PI	BIT 3: MUF4
BIT 10 : TS	BIT 2: MUF3
BIT 9 : +yBL	BIT 1: MUF2
BIT 8 : -yBL	BIT 0: MUF1



## 3.) PNU 272: Status "STN"

BIT 15 : manual var. changed	BIT 7: X
BIT 14 : TS_Stop	BIT 6: X
BIT 13 : MUFS	BIT 5: N
BIT 12 : Option error	BIT 4: Intern
BIT 11 : A4	BIT 3: H (intern)
BIT 10 : A3	BIT 2: H (extern)
BIT 9 : A2	BIT 1: H
BIT 8 : A1	BIT 0: Yext

function BIT 15 from Software -B4 onwards  
function BIT 14 from Software -B5 onwards

## 4.) PNU 275: Status "ST3" (writeable)

BIT 15 : 0	BIT 7: CB
BIT 14 : 0	BIT 6: H
BIT 13 : 0	BIT 5: Si
BIT 12 : 0	BIT 4: N
BIT 11 : 0	BIT 3: P/PI
BIT 10 : 0	BIT 2: tS
BIT 9 : 0	BIT 1: +yBL
BIT 8 : 0	BIT 0: -yBL

## 5.) PNU 277: Status "ST4 " (writeable)

BIT 15 : BLS	BIT 7: BA8
BIT 14 : BLPS	BIT 6: BA7
BIT 13 : INTes	BIT 5: BA6
BIT 12 : x	BIT 4: BA5
BIT 11 : x	BIT 3: BA4
BIT 10 : x	BIT 2: BA3
BIT 9 : TS_Stop	BIT 1: BA2
BIT 8 : BLB	BIT 0: BA1

.....function BIT 9 from software version -B5 onwards  
function BIT 8 from software version -B3 onwards

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DR2210**8.4 SIPART DR2210****Parameter "onPA"**

PNU (dez)	Description element (subindex)				variabl/ convers. index	Name	Note
	Identification/ datatype	Array/ numb.	min value	max value			
0000	76543210/						
100	00100100/ F1	0	1.000	1000	4 / 0	"tF_1"	** OFF
101	00100000/ F1	0	0.100	10.00	0 / 0	"vv_1"	
102	00100000/ F1	0	0.100	100.0	0 / 0	"cP_1"	
103	00100000/ F1	0	1.000	9984	4 / 0	"tn_1"	
104	00100100/ F1	0	1.000	2992	4 / 0	"tv_1"	** OFF
105	00100000/int16	0	0.0	10.0	0 / 7FH	"AH_1"	
106	00100100/int16	0	0.0	100.0	0 / 7FH	"Y0_1"	** Auto
107	00100000/int16	0	-10.0	110.0	0 / 7FH	"YA_1"	
108	00100000/int16	0	-10.0	110.0	0 / 7FH	"YE_1"	
109	00100100/ F1	0	1.000	1000	4 / 0	"tF_2"	** OFF
110	00100000/ F1	0	0.100	10.00	0 / 0	"vv_2"	
111	00100000/ F1	0	0.100	100.0	0 / 0	"cP_2"	
112	00100000/ F1	0	1.000	9984	4 / 0	"tn_2"	
113	00100100/ F1	0	1.000	2992	4 / 0	"tv_2"	** OFF
114	00100000/int16	0	0.0	10.0	0 / 7FH	"AH_2"	
115	00100100/int16	0	0.0	100.0	0 / 7FH	"Y0_2"	** Auto
116	00100000/int16	0	-10.0	110.0	0 / 7FH	"YA_2"	
117	00100000/int16	0	-10.0	110.0	0 / 7FH	"YE_2"	
118	00100000/int16	0	1	100	4 / -1	"dr "	
119	00100100/F1	0	1	1000	4 / 0	"tY "	** off
120	00100000/int16	0	1	30	4 / -23	"tA "	
121	00100000/int16	0	1	30	4 / -23	"tE "	
122	00100100/ F1	0	0.100	1000	4 / 0	"tF1 "	** OFF

PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
123	00100100/ F1	0	0.100	1000		4 / 0	"tF2 "	** OFF
124	00100100/ F1	0	0.100	1000		4 / 0	"tF3 "	** OFF
125	00100100/ F1	0	0.100	1000		4 / 0	"tF4 "	** OFF
126	00100100/ F1	0	0.100	1000		4 / 0	"tF5 "	** OFF
127	00100000/int16	0	-1999	19999		0 / -3	"c1 "	
128	00100000/int16	0	-1999	19999		0 / -3	"c2 "	
129	00100000/int16	0	-1999	19999		0 / -3	"c3 "	
130	00100000/int16	0	-1999	19999		0 / -3	"c4 "	
131	00100000/int16	0	-1999	19999		0 / -3	"c5 "	
132	00100000/int16	0	-1999	1999		0 / -2	"c6 "	
133	00100000/int16	0	-1999	19999		0 / -3	"P01 "	
134	00100000/int16	0	-1999	19999		0 / -3	"P02 "	
135	00100000/int16	0	-1999	19999		0 / -3	"P03 "	
136	00100000/int16	0	-1999	19999		0 / -3	"P04 "	
137	00100000/int16	0	-1999	19999		0 / -3	"P05 "	
138	00100000/int16	0	-1999	19999		0 / -3	"P06 "	
139	00100000/int16	0	-1999	19999		0 / -3	"P07 "	
140	00100000/int16	0	-1999	19999		0 / -3	"P08 "	
141	00100000/int16	0	-1999	19999		0 / -3	"P09 "	
142	00100000/int16	0	-1999	19999		0 / -3	"P10 "	
385	00100000/int16	0	-1999	19999		0 / -3	"P11 "	
386	00100000/int16	0	-1999	19999		0 / -3	"P12 "	
387	00100000/int16	0	-1999	19999		0 / -3	"P13 "	
388	00100000/int16	0	-1999	19999		0 / -3	"P14 "	
389	00100000/int16	0	-1999	19999		0 / -3	"P15 "	
390	00100000/ F1	0	1	1000		4 / 0	"ty2 "	

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PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array/ numb.	min value	max value				
391	00100000/int16	0	1	30	4 / -23	"ta2 "		
392	00100000/int16	0	1	30	4 / -23	"te2 "		
393	00100100/ F1	0	0.100	1000	4 / 0	"tf6 "	off	
394	00100100/ F1	0	0.100	1000	4 / 0	"tf7 "	off	
395	00100100/ F1	0	0.100	1000	4 / 0	"tf8 "	off	
396	00100100/ F1	0	0.100	1000	4 / 0	"tf9 "	off	
397	00100100/ F1	0	0.100	1000	4 / 0	"tf10"	off	
398	00100100/ F1	0	0.100	1000	4 / 0	"tf11"	off	
399	00100000/int16	0	-1999	1999	0 / -2	"c7 "		
400	00100000/int16	0	-1999	19999	0 / -3	"c8 "		
401	00100000/int16	0	-1999	19999	0 / -3	"c9 "		
402	-----	-	-----	-----	-----	----	no access	
403	-----	-	-----	-----	-----	----	no access	

**Parameter "oFPA"**

143	00010000/int16	0	0	3	0 / 0	"dP1 "	
144	00010000/int16	0	-1999	19999	0 / 0	"dA1 "	
145	00010000/int16	0	-1999	19999	0 / 0	"dE1 "	
146	00010000/int16	0	0	3	0 / 0	"dP2 "	
147	00010000/int16	0	-1999	19999	0 / 0	"dA2 "	
148	00010000/int16	0	-1999	19999	0 / 0	"dE2 "	
149	00010000/int16	0	-110.0	110.0	0 / 7FH	"A1 "	
150	00010000/int16	0	-110.0	110.0	0 / 7FH	"A2 "	
151	00010000/int16	0	-110.0	110.0	0 / 7FH	"A3 "	
152	00010000/int16	0	-110.0	110.0	0 / 7FH	"A4 "	
153	00010000/int16	0	0.1	20.0	0 / 7FH	"H1.2"	

PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
154	00010000/int16	0	0.1	20.0	0	/7FH	"H3.4"	
155	00010000/int16	0	-10.0	110.0	0	/7FH	"SA "	
156	00010000/int16	0	-10.0	110.0	0	/7FH	"SE "	
157	00010000/int16	0	-10.0	110.0	0	/7FH	"SH "	
158	00010000/int16	0	-10.0	110.0	0	/7FH	"Sb "	
159	00010100/ F1	0	0.100	9984	4 / 70		"tS "	** OFF
160	00010000/int16	0	0	19999	0 / -3		"vA "	
161	00010000/int16	0	0	19999	0 / -3		"vE "	
162	00010000/int16	0	-10.0	110.0	0	/7FH	"YS "	
163	00010000/int16	0	0.0	100.0	0	/7FH	"Y1 "	
164	00010000/int16	0	0.0	100.0	0	/7FH	"Y2 "	
165	00010000/int16	0	-199.9	199.9	0	/7FH	"-1.1"	
166	00010000/int16	0	-199.9	199.9	0	/7FH	" 0.1"	
167	00010000/int16	0	-199.9	199.9	0	/7FH	" 1.1"	
168	00010000/int16	0	-199.9	199.9	0	/7FH	" 2.1"	
169	00010000/int16	0	-199.9	199.9	0	/7FH	" 3.1"	
170	00010000/int16	0	-199.9	199.9	0	/7FH	" 4.1"	
171	00010000/int16	0	-199.9	199.9	0	/7FH	" 5.1"	
172	00010000/int16	0	-199.9	199.9	0	/7FH	" 6.1"	
173	00010000/int16	0	-199.9	199.9	0	/7FH	" 7.1"	
174	00010000/int16	0	-199.9	199.9	0	/7FH	" 8.1"	
175	00010000/int16	0	-199.9	199.9	0	/7FH	" 9.1"	
176	00010000/int16	0	-199.9	199.9	0	/7FH	"10.1"	
177	00010000/int16	0	-199.9	199.9	0	/7FH	"11.1"	
178	00010000/int16	0	-199.9	199.9	0	/7FH	"-1.3"	
179	00010000/int16	0	-199.9	199.9	0	/7FH	" 0.3"	
180	00010000/int16	0	-199.9	199.9	0	/7FH	" 1.3"	

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PNU (dez)	Description element (subindex)					Name	Note
	Identification/ datatype	Array/ numb.	min value	max value	variabl/ convers. index		
181	00010000/int16	0	-199.9	199.9	0 /7FH	" 2.3 "	
182	00010000/int16	0	-199.9	199.9	0 /7FH	" 3.3 "	
183	00010000/int16	0	-199.9	199.9	0 /7FH	" 4.3 "	
184	00010000/int16	0	-199.9	199.9	0 /7FH	" 5.3 "	
185	00010000/int16	0	-199.9	199.9	0 /7FH	" 6.3 "	
186	00010000/int16	0	-199.9	199.9	0 /7FH	" 7.3 "	
187	00010000/int16	0	-199.9	199.9	0 /7FH	" 8.3 "	
188	00010000/int16	0	-199.9	199.9	0 /7FH	" 9.3 "	
189	00010000/int16	0	-199.9	199.9	0 /7FH	"10.3 "	
190	00010000/int16	0	-199.9	199.9	0 /7FH	"11.3 "	
191	00010000/int32	0	10	1000	0 /-3	"PA "	
192	00010000/int32	0	1000	99990	0 /-3	"PE "	
193	00010000/int32	0	10	1000	0 /-3	"T_A "	
194	00010000/int32	0	1000	99990	0 /-3	"T_E "	
404	00010000/int16	0	-10.0	110.0	0 /7FH	"SA2 "	
405	00010000/int16	0	-10.0	110.0	0 /7FH	"SE2 "	
406	00010100/F1	0	0.100	9984	4 / 70	"tS2 "	** off
407	00010000/int16	0	-10.0	110.0	0 /7FH	"YS2 "	
408	00010000/int16	0	0	3	0 / 0	"Pd "	
409	00010000/int16	0	-1999	19999	0 / 0	"Ad "	
410	00010000/int16	0	-1999	19999	0 / 0	"Ed "	
411	00010000/int16	0	0.1	20.0	0 / 7FH	"H2 "	
412	00010000/int16	0	0.1	20.0	0 / 7FH	"H4 "	
413	00010000/int16	0	0.0	100.0	0 / 7FH	"Y3 "	
414	00010000/int16	0	0.0	100.0	0 / 7FH	"Y4 "	

**Parameter "PAsT"**

PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
195	00010000/ F1	0	0.100	10.00		0 / 0	"vvc "	
196	00010000/ F1	0	0.100	100.0		0 / 0	"cP1 "	
197	00010000/ F1	0	0.100	100.0		0 / 0	"cP3 "	
198	00010000/ F1	0	0.100	100.0		0 / 0	"cP5 "	
199	00010000/ F1	0	0.100	100.0		0 / 0	"cP7 "	
200	00010000/ F1	0	0.100	100.0		0 / 0	"cP9 "	
201	00010000/ F1	0	1.000	9984		4 / 0	"tn1 "	
202	00010000/ F1	0	1.000	9984		4 / 0	"tn3 "	
203	00010000/ F1	0	1.000	9984		4 / 0	"tn5 "	
204	00010000/ F1	0	1.000	9984		4 / 0	"tn7 "	
205	00010000/ F1	0	1.000	9984		4 / 0	"tn9 "	
206	00010100/ F1	0	1.000	2992		4 / 0	"tv1 "	oFF
207	00010100/ F1	0	1.000	2992		4 / 0	"tv3 "	oFF
208	00010100/ F1	0	1.000	2992		4 / 0	"tv5 "	oFF
209	00010100/ F1	0	1.000	2992		4 / 0	"tv7 "	oFF
210	00010100/ F1	0	1.000	2992		4 / 0	"tv9 "	oFF
211	00010000/int16	0	0.0	10.0		0 /7FH	"AH1 "	
212	00010000/int16	0	0.0	10.0		0 /7FH	"AH3 "	
213	00010000/int16	0	0.0	10.0		0 /7FH	"AH5 "	
214	00010000/int16	0	0.0	10.0		0 /7FH	"AH7 "	
215	00010000/int16	0	0.0	10.0		0 /7FH	"AH9 "	
216	00010100/int16	0	0.0	100.0		0 /7FH	"Y01 "	** Auto
217	00010100/int16	0	0.0	100.0		0 /7FH	"Y03 "	** Auto
218	00010100/int16	0	0.0	100.0		0 /7FH	"Y05 "	** Auto
219	00010100/int16	0	0.0	100.0		0 /7FH	"Y07 "	** Auto
220	00010100/int16	0	0.0	100.0		0 /7FH	"Y09 "	** Auto

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DR2210**Parameter "CAE4/CAE5"**

PNU (dez)	Description element (subindex)						Name	Note
	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index			
415	00010000/int16	0	0	7	0 / 0	"Sen4"		
416	00010000/int16	0	0	2	0 / 0	"uni4"		
417	00010000/int16	0	0	10	0 / 0	"typ4"		
418	00010000/int16	0	0	10000	23 / -2	"Mr4 "		
419	00010000/int16	0	0	4000	17 / -1	"tb4 "		
420	00010000/int16	0	0	3	0 / 0	"MP4 "		
421	00010000/int16	0	-1999	19999	0 / 0	"MA4 "		
422	00010000/int16	0	-1999	19999	0 / 0	"ME4 "		
423	00010000/int16	0	0	7	0 / 0	"Sen5"		
424	00010000/int16	0	0	2	0 / 0	"uni5"		
425	00010000/int16	0	0	10	0 / 0	"typ5"		
426	00010000/int16	0	0	10000	23 / -2	"Mr5 "		
427	00010000/int16	0	0	4000	17 / -1	"tb5 "		
428	00010000/int16	0	0	3	0 / 0	"MP5 "		
429	00010000/int16	0	-1999	19999	0 / 0	"MA5 "		
430	00010000/int16	0	-1999	19999	0 / 0	"ME5 "		

**Structure switches "StrS"**

221	00010000/int16	0	0	254	0 / 0	"S0 "	
222	00010000/int16	0	0	12	0 / 0	"S1 "	
223	00010000/int16	0	0	2	0 / 0	"S2 "	
224	00010000/int16	0	0	1	0 / 0	"S3 "	
225	00010000/int16	0	0	1	0 / 0	"S4 "	
226	00010000/int16	0	0	3	0 / 0	"S5 "	
227	00010000/int16	0	0	3	0 / 0	"S6 "	



PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
228	00010000/int16	0	0	3	0 / 0	"S7 "		
229	00010000/int16	0	0	7	0 / 0	"S8 "		
230	00010000/int16	0	0	7	0 / 0	"S9 "		
231	00010000/int16	0	0	1	0 / 0	"S10 "		
232	00010000/int16	0	0	1	0 / 0	"S11 "		
233	00010000/int16	0	0	1	0 / 0	"S12 "		
234	00010000/int16	0	0	1	0 / 0	"S13 "		
235	00010000/int16	0	0	1	0 / 0	"S14 "		
236	00010000/int16	0	0	11	0 / 0	"S15 "		
237	00010000/int16	0	0	11	0 / 0	"S16 "		
238	00010000/int16	0	0	11	0 / 0	"S17 "		
239	00010000/int16	0	0	11	0 / 0	"S18 "		
240	00010000/int16	0	0	11	0 / 0	"S19 "		
241	00010000/int16	0	0	1	0 / 0	"S20 "		
242	00010000/int16	0	0	1	0 / 0	"S21 "		
243	00010000/int16	0	0	6	0 / 0	"S22 "		
244	00010000/int16	0	0	6	0 / 0	"S23 "		
245	00010000/int16	0	-1	18	0 / 0	"S24 "		
246	00010000/int16	0	0	18	0 / 0	"S25 "		
247	00010000/int16	0	0	18	0 / 0	"S26 "		
248	00010000/int16	0	0	18	0 / 0	"S27 "		
249	00010000/int16	0	0	18	0 / 0	"S28 "		
250	00010000/int16	0	0	18	0 / 0	"S29 "		
251	00010000/int16	0	0	18	0 / 0	"S30 "		
252	00010000/int16	0	0	18	0 / 0	"S31 "		
253	00010000/int16	0	0	18	0 / 0	"S32 "		
254	00010000/int16	0	0	18	0 / 0	"S33 "		

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PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
255	00010000/int16	0	0	18	0 / 0	"S34 "		
256	00010000/int16	0	0	18	0 / 0	"S35 "		
257	00010000/int16	0	0	18	0 / 0	"S36 "		
258	00010000/int16	0	0	18	0 / 0	"S37 "		
259	00010000/int16	0	0	18	0 / 0	"S38 "		
260	00010000/int16	0	0	1	0 / 0	"S39 "		
261	00010000/int16	0	0	1	0 / 0	"S40 "		
262	00010000/int16	0	0	1	0 / 0	"S41 "		
263	00010000/int16	0	0	1	0 / 0	"S42 "		
264	00010000/int16	0	0	1	0 / 0	"S43 "		
265	00010000/int16	0	0	1	0 / 0	"S44 "		
266	00010000/int16	0	0	1	0 / 0	"S45 "		
267	00010000/int16	0	0	1	0 / 0	"S46 "		
268	00010000/int16	0	0	2	0 / 0	"S47 "		
269	00010000/int16	0	0	1	0 / 0	"S48 "		
270	00010000/int16	0	0	2	0 / 0	"S49 "		
271	00010000/int16	0	0	1	0 / 0	"S50 "		
272	00010000/int16	0	0	1	0 / 0	"S51 "		
273	00010000/int16	0	0	1	0 / 0	"S52 "		
274	00010000/int16	0	0	1	0 / 0	"S53 "		
275	00010000/int16	0	0	1	0 / 0	"S54 "		
276	00010000/int16	0	0	3	0 / 0	"S55 "		
277	00010000/int16	0	0	1	0 / 0	"S56 "		
278	00010000/int16	0	0	3	0 / 0	"S57 "		
279	00010000/int16	0	0	2	0 / 0	"S58 "		
280	00010000/int16	0	0	2	0 / 0	"S59 "		
281	00010000/int16	0	0	30	0 / 0	"S60 "		

PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
282	00010000/int16	0	0	1	0 / 0	"S61 "		
283	00010000/int16	0	0	1	0 / 0	"S62 "		
284	00010000/int16	0	0	2	0 / 0	"S63 "		
285	00010000/int16	0	0	4	0 / 0	"S64 "		
286	00010000/int16	0	0	1	0 / 0	"S65 "		
287	00010000/int16	0	0	1	0 / 0	"S66 "		
288	00010000/int16	0	0	3	0 / 0	"S67 "		
289	00010000/int16	0	0	1	0 / 0	"S68 "		
290	00010000/int16	0	0	1	0 / 0	"S69 "		
291	00010000/int16	0	0	1	0 / 0	"S70 "		
292	00010000/int16	0	0	1	0 / 0	"S71 "		
293	00010000/int16	0	0	1	0 / 0	"S72 "		
294	00010000/int16	0	0	41	0 / 0	"S73 "		
295	00010000/int16	0	0	41	0 / 0	"S74 "		
296	00010000/int16	0	0	41	0 / 0	"S75 "		
297	00010000/int16	0	0	16	0 / 0	"S76 "		
298	00010000/int16	0	0	16	0 / 0	"S77 "		
299	00010000/int16	0	0	16	0 / 0	"S78 "		
300	00010000/int16	0	0	16	0 / 0	"S79 "		
301	00010000/int16	0	0	16	0 / 0	"S80 "		
302	00010000/int16	0	0	16	0 / 0	"S81 "		
303	00010000/int16	0	0	16	0 / 0	"S82 "		
304	00010000/int16	0	0	16	0 / 0	"S83 "		
305	00010000/int16	0	0	16	0 / 0	"S84 "		
306	00010000/int16	0	0	16	0 / 0	"S85 "		
307	00010000/int16	0	0	1	0 / 0	"S86 "		
308	00010000/int16	0	0	1	0 / 0	"S87 "		

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PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
309	00010000/int16	0	0	1	0 / 0	"S88 "		
310	00010000/int16	0	0	1	0 / 0	"S89 "		
311	00010000/int16	0	0	1	0 / 0	"S90 "		
312	00010000/int16	0	0	1	0 / 0	"S91 "		
313	00010000/int16	0	0	1	0 / 0	"S92 "		
314	00010000/int16	0	0	1	0 / 0	"S93 "		
315	00010000/int16	0	0	39	0 / 0	"S94 "		
316	00010000/int16	0	0	39	0 / 0	"S95 "		
317	00010000/int16	0	0	3	0 / 0	"S96 "		
318	00010000/int16	0	0	3	0 / 0	"S97 "		
319	00010000/int16	0	0	2	0 / 0	"S98 "		
320	00010000/int16	0	0	1	0 / 0	"S99 "		
321	00010000/int16	0	0	1	0 / 0	"S100"		
322	00010010/int16	0	0	5	0 / 0	"S101"		
323	00010010/int16	0	0	5	0 / 0	"S102"		
324	00010010/int16	0	0	1	0 / 0	"S103"		
325	00010010/int16	0	0	2	0 / 0	"S104"		
326	00010010/int16	0	0	1	0 / 0	"S105"		
327	00010010/int16	0	0	125	0 / 0	"S106"		
328	00010010/int16	0	0	25	0 / 0	"S107"		
431	00010000/int16	0	0	3	0 / 0	"S200"		
432	00010000/int16	0	0	3	0 / 0	"S201"		
433	00010000/int16	0	0	3	0 / 0	"S202"		
434	00010000/int16	0	0	3	0 / 0	"S203"		
435	00010000/int16	0	0	3	0 / 0	"S204"		
436	00010000/int16	0	0	3	0 / 0	"S205"		

PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
437	00010000/int16	0	0	1	0 / 0	"S206"		
438	00010000/int16	0	0	1	0 / 0	"S207"		
439	00010000/int16	0	0	1	0 / 0	"S208"		
440	00010000/int16	0	0	1	0 / 0	"S209"		
441	00010000/int16	0	0	1	0 / 0	"S210"		
442	00010000/int16	0	0	1	0 / 0	"S211"		
443	00010000/int16	0	0	11	0 / 0	"S212"		
444	00010000/int16	0	0	11	0 / 0	"S213"		
445	00010000/int16	0	0	11	0 / 0	"S214"		
446	00010000/int16	0	0	11	0 / 0	"S215"		
447	00010000/int16	0	0	11	0 / 0	"S216"		
448	00010000/int16	0	0	11	0 / 0	"S217"		
449	00010000/int16	0	0	18	0 / 0	"S218"		
450	00010000/int16	0	-1	18	0 / 0	"S219"		
451	00010000/int16	0	0	18	0 / 0	"S220"		
452	00010000/int16	0	0	18	0 / 0	"S221"		
453	00010000/int16	0	0	18	0 / 0	"S222"		
454	00010000/int16	0	0	18	0 / 0	"S223"		
455	00010000/int16	0	0	18	0 / 0	"S224"		
456	00010000/int16	0	-1	18	0 / 0	"S225"		
457	00010000/int16	0	-1	18	0 / 0	"S226"		
458	00010000/int16	0	0	18	0 / 0	"S227"		
459	00010000/int16	0	0	18	0 / 0	"S228"		
460	00010000/int16	0	0	1	0 / 0	"S229"		
461	00010000/int16	0	0	1	0 / 0	"S230"		
462	00010000/int16	0	0	2	0 / 0	"S231"		
463	00010000/int16	0	0	2	0 / 0	"S232"		

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PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
464	00010000/int16	0	0	1	0 / 0	"S233"		
465	00010000/int16	0	0	1	0 / 0	"S234"		
466	00010000/int16	0	0	1	0 / 0	"S235"		
467	00010000/int16	0	0	2	0 / 0	"S236"		
468	00010000/int16	0	0	1	0 / 0	"S237"		
469	00010000/int16	0	0	1	0 / 0	"S238"		
470	00010000/int16	0	0	2	0 / 0	"S239"		
471	00010000/int16	0	0	4	0 / 0	"S240"		
472	00010000/int16	0	0	1	0 / 0	"S241"		
473	00010000/int16	0	0	1	0 / 0	"S242"		
474	00010000/int16	0	0	3	0 / 0	"S243"		
475	00010000/int16	0	0	1	0 / 0	"S244"		
476	00010000/int16	0	0	1	0 / 0	"S245"		
477	00010000/int16	0	0	1	0 / 0	"S246"		
478	00010000/int16	0	0	1	0 / 0	"S247"		
479	00010000/int16	0	0	1	0 / 0	"S248"		
480	00010000/int16	0	0	1	0 / 0	"S249"		
481	00010000/int16	0	0	1	0 / 0	"S250"		
482	00010000/int16	0	0	1	0 / 0	"S251"		
483	00010000/int16	0	0	1	0 / 0	"S252"		
484	00010000/int16	0	0	41	0 / 0	"S253"		
485	00010000/int16	0	0	41	0 / 0	"S254"		
486	00010000/int16	0	0	41	0 / 0	"S255"		
487	00010000/int16	0	0	41	0 / 0	"S256"		
488	00010000/int16	0	0	41	0 / 0	"S257"		
489	00010000/int16	0	0	16	0 / 0	"S258"		
490	00010000/int16	0	0	16	0 / 0	"S259"		

PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
491	00010000/int16	0	0	16	0 / 0	"S260"		
492	00010000/int16	0	0	16	0 / 0	"S261"		
493	00010000/int16	0	0	16	0 / 0	"S262"		
494	00010000/int16	0	0	16	0 / 0	"S263"		
495	00010000/int16	0	0	16	0 / 0	"S264"		
496	00010000/int16	0	0	16	0 / 0	"S265"		
497	00010000/int16	0	0	16	0 / 0	"S266"		
498	00010000/int16	0	-1	39	0 / 0	"S267"		
499	00010000/int16	0	-1	39	0 / 0	"S268"		
535	00010000/int16	0	0	18	0 / 0	"S269"	1.)	
536	00010000/int16	0	0	18	0 / 0	"S270"	1.)	
1.) from software version -C9 onwards								
<b><u>Freely interconnectable area</u></b>								
380	01010000/ os2	26	00	00C0	0 / 0	"FDEF"		
381	01010000/ os2	59	00	00FF	0 / 0	"FD_I"		
382	01010000/ os2	42	00	00FF	0 / 0	"FD_O"		
383	01010000/ os2	98	00	005E	0 / 0	"FCON"		
384	01010000/ os2	31	00	001A	0 / 0	"FPOS"		
<b><u>Processvalues (read only)</u></b>								
329	10000010/int16	0	-199.9	199.9	0 / 7FH	"we_d"		
330	10000010/int16	0	-199.9	199.9	0 / 7FH	"xds "		
331	10000010/bs16	0	0000	FFFF	0 / 0	"BA "	1.)	
332	10000010/bs16	0	0000	FFFF	0 / 0	"BE "	2.)	
333	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA1 "		
334	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA2 "		
335	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA3 "		
336	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA4 "		

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PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
337	10000010/int16	0	-199.9	199.9	0	/7FH	"Y1 "	
338	10000010/int16	0	-199.9	199.9	0	/7FH	"Y2 "	
339	10000010/int16	0	-199.9	199.9	0	/7FH	"Y "	
340	10000010/int16	0	-199.9	199.9	0	/7FH	"xd_1"	
341	10000010/int16	0	-199.9	199.9	0	/7FH	"x_1 "	
342	10000010/int16	0	-199.9	199.9	0	/7FH	"w_1 "	
343	10000010/int16	0	-199.9	199.9	0	/7FH	"wi_1"	
344	10000010/int16	0	-199.9	199.9	0	/7FH	"xv_1"	
345	10000010/int16	0	-199.9	199.9	0	/7FH	"wv_1"	
346	10000010/int16	0	-199.9	199.9	0	/7FH	"Y_1 "	
347	10000010/int16	0	-199.9	199.9	0	/7FH	"xd_2"	
348	10000010/int16	0	-199.9	199.9	0	/7FH	"x_2 "	
349	10000010/int16	0	-199.9	199.9	0	/7FH	"w_2 "	
350	10000010/int16	0	-199.9	199.9	0	/7FH	"wi_2"	
351	10000010/int16	0	-199.9	199.9	0	/7FH	"Y_2 "	
352	10000010/int16	0	-199.9	199.9	0	/7FH	"E1 "	
353	10000010/int16	0	-199.9	199.9	0	/7FH	"E2 "	
354	10000010/int16	0	-199.9	199.9	0	/7FH	"E3 "	
355	10000010/int16	0	-199.9	199.9	0	/7FH	"E4 "	
356	10000010/int16	0	-199.9	199.9	0	/7FH	"E5 "	
357	10000010/int16	0	-199.9	199.9	0	/7FH	"E6 "	
358	10000010/int16	0	-199.9	199.9	0	/7FH	"AE1A"	
359	10000010/int16	0	-199.9	199.9	0	/7FH	"AE2A"	
360	10000010/int16	0	-199.9	199.9	0	/7FH	"AE3A"	
361	10000010/int16	0	-199.9	199.9	0	/7FH	"AE4A"	
362	10000010/int16	0	-199.9	199.9	0	/7FH	"AE5A"	
363	10000010/int16	0	-199.9	199.9	0	/7FH	"AE1 "	



PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
364	10000010/int16	0	-199.9	199.9	0	/7FH	"AE2 "	
365	10000010/int16	0	-199.9	199.9	0	/7FH	"AE3 "	
366	10000010/int16	0	-199.9	199.9	0	/7FH	"AE4 "	
367	10000010/int16	0	-199.9	199.9	0	/7FH	"AE5 "	
368	10000010/bs16	0	0	FFFF	0	/ 0	"ST8 "	3.)
369	10000010/bs16	0	0	FFFF	0	/ 0	"STN "	4.)
370	-----							n.def.
371	10000010/bs16	0	0	00FF	0	/ 0	"ST3 "	5.)
500	10000000/bs16	0	0	00FF	0	/ 0	"ST10"	8.)
501	10000010/bs16	0	0	FFFF	0	/ 0	"ST11"	9.)
502	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE6A"	
503	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE7A"	
504	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE8A"	
505	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE9A"	
506	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AEAA"	
507	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AEBA"	
508	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE6 "	
509	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE7 "	
510	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE8 "	
511	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE9 "	
512	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE10"	
513	10000010/int16	0	-199.9	199.9	0	/ 7FH	"AE11"	
514	10000010/int16	0	-199.9	199.9	0	/ 7FH	"E7 "	
515	10000010/int16	0	-199.9	199.9	0	/ 7FH	"E8 "	
516	10000010/int16	0	-199.9	199.9	0	/ 7FH	"E9 "	
517	10000010/int16	0	-199.9	199.9	0	/ 7FH	"E10 "	

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	PNU (dez)	Identification/ datatype	Array/ numb.	min value	max value	variabl/ convers. index	Name   Note
518	10000010/int16	0	-199.9	199.9	0 / 7FH	"E11 "	
519	10000010/int16	0	-199.9	199.9	0 / 7FH	"E12 "	
520	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA5 "	
521	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA6 "	
522	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA7 "	
523	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA8 "	
524	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA9 "	
525	10000010/int16	0	-199.9	199.9	0 / 7FH	"Y3 "	
526	10000010/int16	0	-199.9	199.9	0 / 7FH	"Y4 "	

**Processdata (read-/writeable)**

PNU (dez)	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
372	10000000/int16	0	-10.0	110.0	0	/7FH	"w_es"	
373	10000000/bs16	0	0	00FF	0	/ 0	"STes"	6.)
374	10000000/int16	0	-10.0	110.0	0	/7FH	"Y_es"	
375	10000000/bs16	0	0	00FF	0	/ 0	"ST5 "	7.)
376	10000000/bs16	0	0	FFFF	0	/ 0	"STBA"	11.)
377	10000000/int16	0	-10.0	110.0	0	/7FH	"wles"	
378	10000000/int16	0	-10.0	110.0	0	/7FH	"w2es"	
379	10000000/int16	0	-10.0	110.0	0	/7FH	"YHes"	
527	10000000/int16	0	-10.0	110.0	0	/ 7FH	"YHes2"	
528	10000000/bs16	0	0	00ff	0	/ 0	"ST20"	10.)
529	10000000/int16	0	-10.0	110.0	0	/ 7FH	"Wes2"	
530	10000000/int16	0	-10.0	110.0	0	/ 7FH	"Yes2"	
531	10000000/int16	0	-199.9	199.9	0	/ 7FH	"SAA1"	
532	10000000/int16	0	-199.9	199.9	0	/ 7FH	"SAA2"	
533	10000000/int16	0	-199.9	199.9	0	/ 7FH	"SAA3"	
534	10000000/int16	0	-199.9	199.9	0	/ 7FH	"SAA4"	

**Meaning of the bits:**

- 1.) PNU 331: readable binary outputs "BAxx"
- 11.) PNU 376: writeable binary outputs "StBA"

BIT 15: BA8	BIT 7: BA16
BIT 14: BA7	BIT 6: BA15
BIT 13: BA6	BIT 5: BA14
BIT 12: BA5	BIT 4: BA13
BIT 11: BA4	BIT 3: BA12
BIT 10: BA3	BIT 2: BA11
BIT 9: BA2	BIT 1: BA10
BIT 8: BA1	BIT 0: BA9

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## 2.) PNU 332: binary inputs "BExx"

BIT 15: BE8	BIT 7: x
BIT 14: BE7	BIT 6: x
BIT 13: BE6	BIT 5: BE14
BIT 12: BE5	BIT 4: BE13
BIT 11: BE4	BIT 3: BE12
BIT 10: BE3	BIT 2: BE11
BIT 9: BE2	BIT 1: BE10
BIT 8: BE1	BIT 0: BE9

## 3.) PNU 368: Status "ST8"

BIT 15: CB	BIT 7: BLS
BIT 14: He	BIT 6: BLPS
BIT 13: Si	BIT 5: PAU
BIT 12: N	BIT 4: controller I,II (Override)
BIT 11: P/PI (I)	BIT 3: +dy
BIT 10: P/PI (II)	BIT 2: -dy
BIT 9: +yBL	BIT 1: +dw
BIT 8: -yBL	BIT 0: -dw

## 4.) PNU369: Status "STN"

BIT 15: manual (I) changed	BIT 7: manual (II) changed
BIT 14: X	BIT 6: tS_STOP (I)
BIT 13: MUFS	BIT 5: tS_STOP (II)
BIT 12: contr.I,II(Overr.)	BIT 4: Internal (I)
BIT 11: A4	BIT 3: Internal (II)
BIT 10: A3	BIT 2: X
BIT 9: A2	BIT 1: H
BIT 8: A1	BIT 0: Yext

Function BIT 15: from software version -C7 onwards

Function BIT 7 : from software version -C7 onwards

Function BIT 6 : from software version -C9 onwards

Function Bit 5 : from software version -C9 onwards

## 5.) PNU 371: Status "ST3"

BIT 15: 0	BIT 7: LBQ last change H/I
BIT 14: 0	BIT 6: Y0-Error (PAST)
BIT 13: 0	BIT 5: X
BIT 12: 0	BIT 4: tv-Error
BIT 11: 0	BIT 3: Sum-Error
BIT 10: 0	BIT 2: ncon Error
BIT 9: 0	BIT 1: -Pos Error
BIT 8: 0	BIT 0: nPos Error

## 6.) PNU 373: Status "STes" (writeable)

BIT 15: 0	BIT 7: CB
BIT 14: 0	BIT 6: H
BIT 13: 0	BIT 5: Si
BIT 12: 0	BIT 4: N
BIT 11: 0	BIT 3: P/PI (I)
BIT 10: 0	BIT 2: P/PI (II)
BIT 9: 0	BIT 1: +yBL
BIT 8: 0	BIT 0: -YBL

## 7.) PNU 375: Status "ST5" (writeable)

BIT 15: 0	BIT 7: BLS
BIT 14: 0	BIT 6: BLPS
BIT 13: 0	BIT 5: PAU
BIT 12: 0	BIT 4: Intern (I)
BIT 11: 0	BIT 3: Intern (II)
BIT 10: 0	BIT 2: tS (I)
BIT 9: 0	BIT 1: wSL (I)
BIT 8: 0	BIT 0: BLB

## 8.) PNU 500: Status "ST10"

BIT 15: 0	BIT 7: CB (II)
BIT 14: 0	BIT 6: H (II)
BIT 13: 0	BIT 5: Si (II)
BIT 12: 0	BIT 4: N (II)
BIT 11: 0	BIT 3: LBQ (II)
BIT 10: 0	BIT 2: tS (II)
BIT 9: 0	BIT 1: +yBL (II)
BIT 8: 0	BIT 0: -yBL (II)

## 9.) PNU 501: Status "ST11"

BIT 15: MUF AE8	BIT 7: Option-Error
BIT 14: MUF AE7	BIT 6: tS (I)
BIT 13: MUF AE6	BIT 5: BLB
BIT 12: MUF AE5	BIT 4: wSL (I)
BIT 11: MUF AE4	BIT 3: wSL (II)
BIT 10: MUF AE3	BIT 2: MUF AE11
BIT 9: MUF AE2	BIT 1: MUF AE10
BIT 8: MUF AE1	BIT 0: MUF AE9

## 10.) PNU 528: Status "ST20" (writeable)

BIT 15: 0	BIT 7: CB (II)
BIT 14: 0	BIT 6: H (II)
BIT 13: 0	BIT 5: Si (II)
BIT 12: 0	BIT 4: N (II)
BIT 11: 0	BIT 3: wSL (II)
BIT 10: 0	BIT 2: tS (II)
BIT 9: 0	BIT 1: +yBL (II)
BIT 8: 0	BIT 0: -yBL (II)

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DR2410**8.5 SIPART DR2410****Parameter "onPA"**

PNU dez.	Description element (subindex)						Name	Note
	Identification/ datatype	Array/ numb.	min value	max value	variabl/ convers. index			
000	76543210/							
100	00100000/int16	0	1	100	0 / 0	"dd11"		
101	00100000/int16	0	1	100	0 / 0	"dd12"		
102	00100000/int16	0	1	100	0 / 0	"dd21"		
103	00100000/int16	0	1	100	0 / 0	"dd22"		
104	00100000/int16	0	1	100	0 / 0	"dd31"		
105	00100000/int16	0	1	100	0 / 0	"dd32"		
106	00100000/ F1	0	0.100	9984	0 / 0	"Pd01"		
107	00100000/ F1	0	0.100	9984	0 / 0	"Pd02"		
108	00100000/ F1	0	0.100	9984	0 / 0	"Pd03"		
109	00100000/ F1	0	0.100	9984	0 / 0	"Pd04"		
110	00100000/ F1	0	0.100	9984	0 / 0	"Pd05"		
111	00100000/ F1	0	0.100	9984	0 / 0	"Pd06"		
112	00100000/ F1	0	0.100	9984	0 / 0	"Pd07"		
113	00100000/ F1	0	0.100	9984	0 / 0	"Pd08"		
114	00100000/ F1	0	0.100	9984	0 / 0	"Pd09"		
115	00100000/ F1	0	0.100	9984	0 / 0	"Pd10"		
116	00100000/ F1	0	0.100	9984	0 / 0	"Pd11"		
117	00100000/ F1	0	0.100	9984	0 / 0	"Pd12"		
118	00100000/ F1	0	0.100	9984	0 / 0	"Pd13"		
119	00100000/ F1	0	0.100	9984	0 / 0	"Pd14"		
120	00100000/ F1	0	0.100	9984	0 / 0	"Pd15"		

PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
121	00100000/Fl	0	0.100	9984		0 / 0	"Pd16"	
122	00100000/int16	0	-1999	19999		0 / -3	"PL01"	
123	00100000/int16	0	-1999	19999		0 / -3	"PL02"	
124	00100000/int16	0	-1999	19999		0 / -3	"PL03"	
125	00100000/int16	0	-1999	19999		0 / -3	"PL04"	
126	00100000/int16	0	-1999	19999		0 / -3	"PL05"	
127	00100000/int16	0	-1999	19999		0 / -3	"PL06"	
128	00100000/int16	0	-1999	19999		0 / -3	"PL07"	
129	00100000/int16	0	-1999	19999		0 / -3	"PL08"	
130	00100000/int16	0	-1999	19999		0 / -3	"PL09"	
131	00100000/int16	0	-1999	19999		0 / -3	"PL10"	
132	00100000/int16	0	-1999	19999		0 / -3	"PL11"	
133	00100000/int16	0	-1999	19999		0 / -3	"PL12"	
134	00100000/int16	0	-1999	19999		0 / -3	"PL13"	
135	00100000/int16	0	-1999	19999		0 / -3	"PL14"	
136	00100000/int16	0	-1999	19999		0 / -3	"PL15"	
137	00100000/int16	0	-1999	19999		0 / -3	"PL16"	
138	00100000/int16	0	-1999	19999		0 / -3	"PL17"	
139	00100000/int16	0	-1999	19999		0 / -3	"PL18"	
140	00100000/int16	0	-1999	19999		0 / -3	"PL19"	
141	00100000/int16	0	-1999	19999		0 / -3	"PL20"	
142	00100000/int16	0	-1999	19999		0 / -3	"PL21"	
143	00100000/int16	0	-1999	19999		0 / -3	"PL22"	
144	00100000/int16	0	-1999	19999		0 / -3	"PL23"	
145	00100000/int16	0	-1999	19999		0 / -3	"PL24"	
146	00100000/int16	0	-1999	19999		0 / -3	"PL25"	
147	00100000/int16	0	-1999	19999		0 / -3	"PL26"	

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PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
148	00100000/int16	0	-1999	19999		0 / -3	"PL27"	
149	00100000/int16	0	-1999	19999		0 / -3	"PL28"	
150	00100000/int16	0	-1999	19999		0 / -3	"PL29"	
151	00100100/ F1	0	1.000	9984		4 / 0	"tFi1"	** OFF
152	00100100/ F1	0	1.000	9984		4 / 0	"tFi2"	** OFF
153	00100000/ F1	0	1.000	9984		4 / 0	"tiA1"	
154	00100100/F1	0	1.000	9984		4 / 0	"trA1"	** off
155	00100000/int16	0	-199.9	199.9		0 /7FH	"LAA1"	
156	00100000/int16	0	-199.9	199.9		0 /7FH	"LEA1"	
157	00100000/ F1	0	1.000	9984		4 / 0	"tiA2"	
158	00100100/F1	0	1.000	9984		4 / 0	"trA2"	** off
159	00100000/int16	0	-199.9	199.9		0 /7FH	"LAA2"	
160	00100000/int16	0	-199.9	199.9		0 /7FH	"LEA2"	
161	00100100/ F1	0	1.000	9984		4 / 0	"tib1"	**prog
162	00100100/F1	0	1.000	9984		4 / 0	"trb1"	** off
163	00100000/int16	0	-199.9	199.9		0 /7FH	"LAB1"	
164	00100000/int16	0	-199.9	199.9		0 /7FH	"LEb1"	
165	00100100/ F1	0	1.000	9984		4 / 0	"tib2"	**prog
166	00100100/F1	0	1.000	9984		4 / 0	"trb2"	** off
167	00100000/int16	0	-199.9	199.9		0 /7FH	"LAB2"	
168	00100000/int16	0	-199.9	199.9		0 /7FH	"LEb2"	
169	00100000/ F1	0	0.100	100.0		0 / 0	"cPc1"	
170	00100000/ F1	0	1.000	9984		4 / 0	"tnc1"	
171	00100100/ F1	0	1.000	2992		4 / 0	"tvcl"	** off
172	00100000/ F1	0	0.100	10.00		0 / 0	"vvc1"	
173	00100000/int16	0	0.0	10.0		0 /7FH	"AHc1"	
174	00100100/int16	0	0.0	100.0		0 /7FH	"Y0c1"	** Auto



PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
175	00100000/int16	0	-10.0	110.0		0 /7FH	"YAc1"	
176	00100000/int16	0	-10.0	110.0		0 /7FH	"YEc1"	
177	00100000/F1	0	10	1000		4 / 0	"tYc1"	
178	00100000/ F1	0	0.100	100.0		0 / 0	"cPc2"	
179	00100000/ F1	0	1.000	9984		4 / 0	"tnc2"	
180	00100100/ F1	0	1.000	2992		4 / 0	"tvc2"	off
181	00100000/ F1	0	0.100	10.00		0 / 0	"vvc2"	
182	00100000/int16	0	0.0	10.0		0 /7FH	"AHc2"	
183	00100100/int16	0	0.0	100.0		0 /7FH	"Y0c2"	** Auto
184	00100000/int16	0	-10.0	110.0		0 /7FH	"YAc2"	
185	00100000/int16	0	-10.0	110.0		0 /7FH	"YEc2"	
186	00100000/F1	0	10	1000		4 / 0	"tYc2"	
187	00100000/ F1	0	0.100	100.0		0 / 0	"cPE1"	
188	00100000/ F1	0	1.000	9984		4 / 0	"tnE1"	
189	00100100/ F1	0	1.000	2992		4 / 0	"tvE1"	off
190	00100000/ F1	0	0.100	10.00		0 / 0	"vvE1"	
191	00100000/int16	0	0.0	10.0		0 /7FH	"AHE1"	
192	00100100/int16	0	0.0	100.0		0 /7FH	"Y0E1"	** Auto
193	00100000/int16	0	-10.0	110.0		0 /7FH	"YAE1"	
194	00100000/int16	0	-10.0	110.0		0 /7FH	"YEE1"	
195	00100000/F1	0	10	1000		4 / 0	"tYE1"	
196	00100000/int16	0	1	30		4 /-23	"tAE1"	
197	00100000/int16	0	1	30		4 /-23	"tEE1"	
198	00100000/ F1	0	0.100	100.0		0 / 0	"cPE2"	
199	00100000/ F1	0	1.000	9984		4 / 0	"tnE2"	
200	00100100/ F1	0	1.000	2992		4 / 0	"tvE2"	off
201	00100000/ F1	0	0.100	10.00		0 / 0	"vvE2"	

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PNU dez.	Description element (subindex)					variabl/ convers.	Name	Note
	Identification/ datatype	Array numb.	min value	max value	index			
202	00100000/int16	0	0.0	10.0	0 /7FH	"AHE2"		
203	00100100/int16	0	0.0	100.0	0 /7FH	"Y0E2"	** Auto	
204	00100000/int16	0	-10.0	110.0	0 /7FH	"YAE2"		
205	00100000/int16	0	-10.0	110.0	0 /7FH	"YEE2"		
206	00100000/F1	0	10	1000	4 / 0	"tYE2"		
207	00100000/int16	0	1	30	4 /-23	"tAE2"		
208	00100000/int16	0	1	30	4 /-23	"tEE2"		
209	00100000/ F1	0	0.100	100.0	0 / 0	"cPi1"		
210	00100000/ F1	0	1.000	9984	4 / 0	"tni1"		
211	00100100/ F1	0	1.000	2992	4 / 0	"tvi1"	off	
212	00100000/ F1	0	0.100	10.00	0 / 0	"vvi1"		
213	00100000/int16	0	0.0	10.0	0 /7FH	"AHi1"		
214	00100000/F1	0	10	1000	4 / 0	"tYi1"		
215	00100000/int16	0	1	30	4 /-23	"tAi1"		
216	00100000/int16	0	1	30	4 /-23	"tEi1"		
217	00100000/ F1	0	0.100	100.0	0 / 0	"cPi2"		
218	00100000/ F1	0	1.000	9984	4 / 0	"tni2"		
219	00100100/ F1	0	1.000	2992	4 / 0	"tvi2"	off	
220	00100000/ F1	0	0.100	10.00	0 / 0	"vvi2"		
221	00100000/int16	0	0.0	10.0	0 /7FH	"AHi2"		
222	00100000/F1	0	10	1000	4 / 0	"tYi2"		
223	00100000/int16	0	1	30	4 /-23	"tAi2"		
224	00100000/int16	0	1	30	4 /-23	"tEi2"		
225	00100100/ F1	0	1.000	9984	4 / 0	"dti1"	off	
226	00100100/ F1	0	1.000	9984	4 / 0	"dti2"	off	

PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
402	00100000/int16	0	1	100		0 / 0	"dd13"	
403	00100000/int16	0	1	100		0 / 0	"dd14"	
404	00100000/int16	0	1	100		0 / 0	"dd23"	
405	00100000/int16	0	1	100		0 / 0	"dd24"	
406	00100000/int16	0	1	100		0 / 0	"dd33"	
407	00100000/int16	0	1	100		0 / 0	"dd34"	
408	00100000/ F1	0	0.100	9984		0 / 0	"Pd17"	
409	00100000/ F1	0	0.100	9984		0 / 0	"Pd18"	
410	00100000/ F1	0	0.100	9984		0 / 0	"Pd19"	
411	00100000/ F1	0	0.100	9984		0 / 0	"Pd20"	
412	00100000/ F1	0	0.100	9984		0 / 0	"Pd21"	
413	00100000/ F1	0	0.100	9984		0 / 0	"Pd22"	
414	00100000/ F1	0	0.100	9984		0 / 0	"Pd23"	
415	00100000/ F1	0	0.100	9984		0 / 0	"Pd24"	
416	00100000/ F1	0	0.100	9984		0 / 0	"Pd25"	
417	00100000/ F1	0	0.100	9984		0 / 0	"Pd26"	
418	00100000/ F1	0	0.100	9984		0 / 0	"Pd27"	
419	00100000/ F1	0	0.100	9984		0 / 0	"Pd28"	
420	00100000/ F1	0	0.100	9984		0 / 0	"Pd29"	
421	00100000/ F1	0	0.100	9984		0 / 0	"Pd30"	
422	00100000/ F1	0	0.100	9984		0 / 0	"Pd31"	
423	00100000/ F1	0	0.100	9984		0 / 0	"Pd32"	
424	00100000/ F1	0	0.100	9984		0 / 0	"Pd33"	
425	00100000/ F1	0	0.100	9984		0 / 0	"Pd34"	
426	00100000/ F1	0	0.100	9984		0 / 0	"Pd35"	
427	00100000/ F1	0	0.100	9984		0 / 0	"Pd36"	
428	00100000/ F1	0	0.100	9984		0 / 0	"Pd37"	

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PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
429	00100000/ F1	0	0.100	9984		0 / 0	"Pd38"	
430	00100000/ F1	0	0.100	9984		0 / 0	"Pd39"	
431	00100000/ F1	0	0.100	9984		0 / 0	"Pd40"	
432	00100000/int16	0	-1999	19999		0 / -3	"PL30"	
433	00100000/int16	0	-1999	19999		0 / -3	"PL31"	
434	00100000/int16	0	-1999	19999		0 / -3	"PL32"	
435	00100000/int16	0	-1999	19999		0 / -3	"PL33"	
436	00100000/int16	0	-1999	19999		0 / -3	"PL34"	
437	00100000/int16	0	-1999	19999		0 / -3	"PL35"	
438	00100000/int16	0	-1999	19999		0 / -3	"PL36"	
439	00100000/int16	0	-1999	19999		0 / -3	"PL37"	
440	00100000/int16	0	-1999	19999		0 / -3	"PL38"	
441	00100000/int16	0	-1999	19999		0 / -3	"PL39"	
442	00100000/int16	0	-1999	19999		0 / -3	"PL40"	
443	00100000/ F1	0	1.000	9984		4 / 0	"tiA3"	
444	00100100/F1	0	1.000	9984		4 / 0	"trA3"	** off
445	00100000/int16	0	-199.9	199.9		0 /7FH	"LAA3"	
446	00100000/int16	0	-199.9	199.9		0 /7FH	"LEA3"	
447	00100000/ F1	0	1.000	9984		4 / 0	"tiA4"	
448	00100100/F1	0	1.000	9984		4 / 0	"trA4"	** off
449	00100000/int16	0	-199.9	199.9		0 /7FH	"LAA4"	
450	00100000/int16	0	-199.9	199.9		0 /7FH	"LEA4"	
451	00100100/ F1	0	1.000	9984		4 / 0	"tib3"	**prog
452	00100100/F1	0	1.000	9984		4 / 0	"trb3"	** off
453	00100000/int16	0	-199.9	199.9		0 /7FH	"LAb3"	
454	00100000/int16	0	-199.9	199.9		0 /7FH	"LEb3"	
455	00100100/ F1	0	1.000	9984		4 / 0	"tib4"	**prog

PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
456	00100100/F1	0	1.000	9984		4 / 0	"trb4"	** off
457	00100000/int16	0	-199.9	199.9		0 /7FH	"LAb4"	
458	00100000/int16	0	-199.9	199.9		0 /7FH	"LEb4"	
459	00100100/ F1	0	1.000	9984		4 / 0	"tib5"	**prog
460	00100100/F1	0	1.000	9984		4 / 0	"trb5"	** off
461	00100000/int16	0	-199.9	199.9		0 /7FH	"LAb5"	
462	00100000/int16	0	-199.9	199.9		0 /7FH	"LEb5"	
463	00100100/ F1	0	1.000	9984		4 / 0	"tib6"	**prog
464	00100100/F1	0	1.000	9984		4 / 0	"trb6"	** off
465	00100000/int16	0	-199.9	199.9		0 /7FH	"LAb6"	
466	00100000/int16	0	-199.9	199.9		0 /7FH	"LEb6"	
467	00100000/ F1	0	0.100	100.0		0 / 0	"cPc3"	
468	00100000/ F1	0	1.000	9984		4 / 0	"tnc3"	
469	00100100/ F1	0	1.000	2992		4 / 0	"tvc3"	off
470	00100000/ F1	0	0.100	10.00		0 / 0	"vvc3"	
471	00100000/int16	0	0.0	10.0		0 /7FH	"AHc3"	
472	00100100/int16	0	0.0	100.0		0 /7FH	"Y0c3"	** Auto
473	00100000/int16	0	-10.0	110.0		0 /7FH	"YAc3"	
474	00100000/int16	0	-10.0	110.0		0 /7FH	"YEc3"	
475	00100000/F1	0	10	1000		4 / 0	"tYc3"	
476	00100000/ F1	0	0.100	100.0		0 / 0	"cPc4"	
477	00100000/ F1	0	1.000	9984		4 / 0	"tnc4"	
478	00100100/ F1	0	1.000	2992		4 / 0	"tvc4"	off
479	00100000/ F1	0	0.100	10.00		0 / 0	"vvc4"	
480	00100000/int16	0	0.0	10.0		0 /7FH	"AHc4"	
481	00100100/int16	0	0.0	100.0		0 /7FH	"Y0c4"	** Auto
482	00100000/int16	0	-10.0	110.0		0 /7FH	"YAc4"	

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PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
483	00100000/int16	0	-10.0	110.0	0	/7FH	"YEc4"	
484	00100000/F1	0	10	1000	4	/ 0	"tYc4"	
485	00100000/ F1	0	0.100	100.0	0	/ 0	"cPE3"	
486	00100000/ F1	0	1.000	9984	4	/ 0	"tnE3"	
487	00100100/ F1	0	1.000	2992	4	/ 0	"tvE3"	off
488	00100000/ F1	0	0.100	10.00	0	/ 0	"vvE3"	
489	00100000/int16	0	0.0	10.0	0	/7FH	"AHE3"	
490	00100100/int16	0	0.0	100.0	0	/7FH	"Y0E3"	** Auto
491	00100000/int16	0	-10.0	110.0	0	/7FH	"YAE3"	
492	00100000/int16	0	-10.0	110.0	0	/7FH	"YEE3"	
493	00100000/F1	0	10	1000	4	/ 0	"tYE3"	
494	00100000/int16	0	1	30	4	/-23	"tAE3"	
495	00100000/int16	0	1	30	4	/-23	"tEE3"	
496	00100000/ F1	0	0.100	100.0	0	/ 0	"cPE4"	
497	00100000/ F1	0	1.000	9984	4	/ 0	"tnE4"	
498	00100100/ F1	0	1.000	2992	4	/ 0	"tvE4"	off
499	00100000/ F1	0	0.100	10.00	0	/ 0	"vvE4"	
500	00100000/int16	0	0.0	10.0	0	/7FH	"AHE4"	
501	00100100/int16	0	0.0	100.0	0	/7FH	"Y0E4"	** Auto
502	00100000/int16	0	-10.0	110.0	0	/7FH	"YAE4"	
503	00100000/int16	0	-10.0	110.0	0	/7FH	"YEE4"	
504	00100000/F1	0	10	1000	4	/ 0	"tYE4"	
505	00100000/int16	0	1	30	4	/-23	"tAE4"	
506	00100000/int16	0	1	30	4	/-23	"tEE4"	
507	00100000/ F1	0	0.100	100.0	0	/ 0	"cPi3"	
508	00100000/ F1	0	1.000	9984	4	/ 0	"tni3"	
509	00100100/ F1	0	1.000	2992	4	/ 0	"tvi3"	off

PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
510	00100000/F1	0	0.100	10.00		0 / 0	"vvi3"	
511	00100000/int16	0	0.0	10.0		0 /7FH	"AHi3"	
512	00100000/F1	0	10	1000		4 / 0	"tYi3"	
513	00100000/int16	0	1	30		4 /-23	"tAi3"	
514	00100000/int16	0	1	30		4 /-23	"tEi3"	
515	00100000/F1	0	0.100	100.0		0 / 0	"cPi4"	
516	00100000/F1	0	1.000	9984		4 / 0	"tni4"	
517	00100100/F1	0	1.000	2992		4 / 0	"tvi4"	off
518	00100000/F1	0	0.100	10.00		0 / 0	"vvi4"	
519	00100000/int16	0	0.0	10.0		0 /7FH	"AHi4"	
520	00100000/F1	0	10	1000		4 / 0	"tYi4"	
521	00100000/int16	0	1	30		4 /-23	"tAi4"	
522	00100000/int16	0	1	30		4 /-23	"tEi4"	
523	00100000/int16	0	1	499		4 /-23	"PWt1"	
524	00100000/F1	0	0.100	1000		4 / 0	"PWP1"	
525	00100000/int16	0	1	499		4 /-23	"PWt2"	
526	00100000/F1	0	0.100	1000		4 / 0	"PWP2"	
527	00100000/int16	0	1	499		4 /-23	"PWt3"	
528	00100000/F1	0	0.100	1000		4 / 0	"PWP3"	
529	00100000/int16	0	1	499		4 /-23	"PWt4"	
530	00100000/F1	0	0.100	1000		4 / 0	"PWP4"	
531	00100000/int16	0	0.0	100.0		0 /7FH	"SPA1"	
532	00100000/int16	0	0.0	100.0		0 /7FH	"SPE1"	
533	00100000/int16	0	0.0	100.0		0 /7FH	"SPA2"	
534	00100000/int16	0	0.0	100.0		0 /7FH	"SPE2"	
535	00100000/int16	0	0.0	100.0		0 /7FH	"SPA3"	
536	00100000/int16	0	0.0	100.0		0 /7FH	"SPE3"	

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PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
537	00100000/int16	0	0.0	100.0	0	/7FH	"SPA4"	
538	00100000/int16	0	0.0	100.0	0	/7FH	"SPE4"	
539	00100000/int16	0	0.0	100.0	0	/7FH	"SPA5"	
540	00100000/int16	0	0.0	100.0	0	/7FH	"SPE5"	
541	00100000/int16	0	0.0	100.0	0	/7FH	"SPA6"	
542	00100000/int16	0	0.0	100.0	0	/7FH	"SPE6"	
543	00100000/int16	0	0.0	100.0	0	/7FH	"SPA7"	
544	00100000/int16	0	0.0	100.0	0	/7FH	"SPE7"	
545	00100000/int16	0	0.0	100.0	0	/7FH	"SPA8"	
546	00100000/int16	0	0.0	100.0	0	/7FH	"SPE8"	
547	00100000/int16	0	2	10000	0	/ 0	"PEr1"	
548	00100000/int16	0	1	10000	0	/ 0	"tAS1"	
549	00100000/int16	0	2	10000	0	/ 0	"PEr2"	
550	00100000/int16	0	1	10000	0	/ 0	"tAs2"	



**Parameter "oFPA"**

Description element (subindex)							
PNU dez.	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index	Name	Note
227	00010000/int16	0	-199.9	199.9	0 /7FH	"AA11"	
228	00010000/int16	0	-199.9	199.9	0 /7FH	"AE11"	
229	00010000/int16	0	-199.9	199.9	0 /7FH	"AA12"	
230	00010000/int16	0	-199.9	199.9	0 /7FH	"AE12"	
231	00010000/int16	0	0	3	0 / 0	"dP11"	
232	00010000/int16	0	-1999	19999	0 / 0	"dA11"	
233	00010000/int16	0	-1999	19999	0 / 0	"dE11"	
234	00010000/int16	0	0	3	0 / 0	"dP12"	
235	00010000/int16	0	-1999	19999	0 / 0	"dA12"	
236	00010000/int16	0	-1999	19999	0 / 0	"dE12"	
237	00010000/int16	0	0	3	0 / 0	"dP21"	
238	00010000/int16	0	-1999	19999	0 / 0	"dA21"	
239	00010000/int16	0	-1999	19999	0 / 0	"dE21"	
240	00010000/int16	0	0	3	0 / 0	"dP22"	
241	00010000/int16	0	-1999	19999	0 / 0	"dA22"	
242	00010000/int16	0	-1999	19999	0 / 0	"dE22"	
243	00010000/int16	0	0	1	0 / 0	"dP31"	
244	00010000/int16	0	-199	999	0 / 0	"dA31"	
245	00010000/int16	0	-199	999	0 / 0	"dE31"	
246	00010000/int16	0	0	1	0 / 0	"dP32"	
247	00010000/int16	0	-199	999	0 / 0	"dA32"	
248	00010000/int16	0	-199	999	0 / 0	"dE32"	
249	00010000/int32	0	10	1000	0 /-3	"PA1 "	
250	00010000/int32	0	1000	99990	0 /-3	"PE1 "	
251	00010000/int32	0	10	1000	0 /-3	"T_A1"	
252	00010000/int32	0	1000	99990	0 /-3	"T_E1"	

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PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
253	00010000/int32	0	10	1000		0 /-3	"PA2 "	
254	00010000/int32	0	1000	99990		0 /-3	"PE2 "	
255	00010000/int32	0	10	1000		0 /-3	"T_A2"	
256	00010000/int32	0	1000	99990		0 /-3	"T_E2"	
257	00010000/int16	0	-199.9	199.9		0 /7FH	"AA21"	
258	00010000/int16	0	-199.9	199.9		0 /7FH	"AE21"	
259	00010000/int16	0	-199.9	199.9		0 /7FH	"AA22"	
260	00010000/int16	0	-199.9	199.9		0 /7FH	"AE22"	
261	00010000/int16	0	-199.9	199.9		0 /7FH	"L1.0"	
262	00010000/int16	0	-199.9	199.9		0 /7FH	"L1.2"	
263	00010000/int16	0	-199.9	199.9		0 /7FH	"L1.4"	
264	00010000/int16	0	-199.9	199.9		0 /7FH	"L1.6"	
265	00010000/int16	0	-199.9	199.9		0 /7FH	"L1.8"	
266	00010000/int16	0	-199.9	199.9		0 /7FH	"L1.h"	
267	00010000/int16	0	-199.9	199.9		0 /7FH	"L2.0"	
268	00010000/int16	0	-199.9	199.9		0 /7FH	"L2.2"	
269	00010000/int16	0	-199.9	199.9		0 /7FH	"L2.4"	
270	00010000/int16	0	-199.9	199.9		0 /7FH	"L2.6"	
271	00010000/int16	0	-199.9	199.9		0 /7FH	"L2.8"	
272	00010000/int16	0	-199.9	199.9		0 /7FH	"L2.h"	
273	00010000/int16	0	-199.9	199.9		0 /7FH	"L3.0"	
274	00010000/int16	0	-199.9	199.9		0 /7FH	"L3.2"	
275	00010000/int16	0	-199.9	199.9		0 /7FH	"L3.4"	
276	00010000/int16	0	-199.9	199.9		0 /7FH	"L3.6"	
277	00010000/int16	0	-199.9	199.9		0 /7FH	"L3.8"	
278	00010000/int16	0	-199.9	199.9		0 /7FH	"L3.h"	
279	00010000/int16	0	-199.9	199.9		0 /7FH	"-1.1"	

Description element (subindex)							
PNU dez.	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index	Name	Note
280	00010000/int16	0	-199.9	199.9	0 /7FH	" 0.1"	
281	00010000/int16	0	-199.9	199.9	0 /7FH	" 1.1"	
282	00010000/int16	0	-199.9	199.9	0 /7FH	" 2.1"	
283	00010000/int16	0	-199.9	199.9	0 /7FH	" 3.1"	
284	00010000/int16	0	-199.9	199.9	0 /7FH	" 4.1"	
285	00010000/int16	0	-199.9	199.9	0 /7FH	" 5.1"	
286	00010000/int16	0	-199.9	199.9	0 /7FH	" 6.1"	
287	00010000/int16	0	-199.9	199.9	0 /7FH	" 7.1"	
288	00010000/int16	0	-199.9	199.9	0 /7FH	" 8.1"	
289	00010000/int16	0	-199.9	199.9	0 /7FH	" 9.1"	
290	00010000/int16	0	-199.9	199.9	0 /7FH	"10.1"	
291	00010000/int16	0	-199.9	199.9	0 /7FH	"11.1"	
292	00010000/int16	0	-199.9	199.9	0 /7FH	"-1.2"	
293	00010000/int16	0	-199.9	199.9	0 /7FH	" 0.2"	
294	00010000/int16	0	-199.9	199.9	0 /7FH	" 1.2"	
295	00010000/int16	0	-199.9	199.9	0 /7FH	" 2.2"	
296	00010000/int16	0	-199.9	199.9	0 /7FH	" 3.2"	
297	00010000/int16	0	-199.9	199.9	0 /7FH	" 4.2"	
298	00010000/int16	0	-199.9	199.9	0 /7FH	" 5.2"	
299	00010000/int16	0	-199.9	199.9	0 /7FH	" 6.2"	
300	00010000/int16	0	-199.9	199.9	0 /7FH	" 7.2"	
301	00010000/int16	0	-199.9	199.9	0 /7FH	" 8.2"	
302	00010000/int16	0	-199.9	199.9	0 /7FH	" 9.2"	
303	00010000/int16	0	-199.9	199.9	0 /7FH	"10.2"	
304	00010000/int16	0	-199.9	199.9	0 /7FH	"11.2"	
305	00010000/int16	0	2	8	0 / 0	"StP1"	MUP1
306	00010000/int16	0	2	8	0 / 0	"StP2"	MUP2

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PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
551	00010000/int16	0	-199.9	199.9		0 / 7FH	"AA13"	
552	00010000/int16	0	-199.9	199.9		0 / 7FH	"AE13"	
553	00010000/int16	0	-199.9	199.9		0 / 7FH	"AA14"	
554	00010000/int16	0	-199.9	199.9		0 / 7FH	"AE14"	
555	00010000/int16	0	0	3		0 / 0	"dP13"	
556	00010000/int16	0	-1999	19999		0 / 0	"dA13"	
557	00010000/int16	0	-1999	19999		0 / 0	"dE13"	
558	00010000/int16	0	0	3		0 / 0	"dP14"	
559	00010000/int16	0	-1999	19999		0 / 0	"dA14"	
560	00010000/int16	0	-1999	19999		0 / 0	"dE14"	
561	00010000/int16	0	0	3		0 / 0	"dP23"	
562	00010000/int16	0	-1999	19999		0 / 0	"dA23"	
563	00010000/int16	0	-1999	19999		0 / 0	"dE23"	
564	00010000/int16	0	0	3		0 / 0	"dP24"	
565	00010000/int16	0	-1999	19999		0 / 0	"dA24"	
566	00010000/int16	0	-1999	19999		0 / 0	"dE24"	
567	00010000/int16	0	0	1		0 / 0	"dP33"	
568	00010000/int16	0	-199	999		0 / 0	"dA33"	
569	00010000/int16	0	-199	999		0 / 0	"dE33"	
570	00010000/int16	0	0	1		0 / 0	"dP34"	
571	00010000/int16	0	-199	999		0 / 0	"dA34"	
572	00010000/int16	0	-199	999		0 / 0	"dE34"	
573	00010000/int16	0	2	4		0 / 0	"Cnt1"	
574	00010000/int16	0	-199.9	199.9		0 / 7FH	"AA23"	
575	00010000/int16	0	-199.9	199.9		0 / 7FH	"AE23"	
576	00010000/int16	0	-199.9	199.9		0 / 7FH	"AA24"	
577	00010000/int16	0	-199.9	199.9		0 / 7FH	"AE24"	

**Parameter "CLPA"**

Description element (subindex)							
PNU dez.	Identification/ datatype	Array/ numb.	min value	max value	variabl/ convers. index	Name	Note
379	00010000/int16	0	0	1	0 / 0	"CLFo"	
380	00010000/int16	0	0	255	0 / 0	"CLCY"	
381	00010000/int16	0	0	7	0 / 0	"CLSb"	
382	00010000/int16	0	0	40	0 / 0	"CLP1"	
383	00010000/int16	0	0	40	0 / 0	"CLP2"	
384	00010000/int16	0	0	40	0 / 0	"CLP3"	
385	00010000/int16	0	0	40	0 / 0	"CLP4"	
386	00010000/int16	0	0	40	0 / 0	"CLP5"	
387	00010000/int16	0	0	40	0 / 0	"CLP6"	
388	00010000/int16	0	0	40	0 / 0	"CLP7"	
389	00010000/int16	0	0	40	0 / 0	"CLP8"	
390	01010000/os2	40	00.01	59.59	0 / 0	"CLti"	
391	01010000/os2	40	0/0	FF/FF	0 / 0	"CLby"	
392	01010100/int16	48	-199.9	199.9	0 / 7FH	"CLA1"	nop
393	01010100/int16	48	-199.9	199.9	0 / 7FH	"CLA2"	nop

**CAE4**

578	00010000/int16	0	0	7	0 / 0	"Sen4"	
579	00010000/int16	0	0	2	0 / 0	"uni4"	
580	00010000/int16	0	0	10	0 / 0	"typ4"	
581	00010000/int16	0	0	10000	23 / -2	"Mr4 "	
582	00010000/int16	0	0	4000	17 / -1	"tb4 "	
583	00010000/int16	0	0	3	0 / 0	"MP4 "	
584	00010000/int16	0	-1999	19999	0 / 0	"MA4 "	
585	00010000/int16	0	-1999	19999	0 / 0	"ME4 "	

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Description element (subindex)							
PNU dez.	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index	Name	Note
586	00010000/int16	0	0	7	0 / 0	"Sen5"	
587	00010000/int16	0	0	2	0 / 0	"uni5"	
588	00010000/int16	0	0	10	0 / 0	"typ5"	
589	00010000/int16	0	0	10000	23 /-2	"Mr5 "	
590	00010000/int16	0	0	4000	17/ -1	"tb5 "	
591	00010000/int16	0	0	3	0 / 0	"MP5 "	
592	00010000/int16	0	-1999	19999	0 / 0	"MA5 "	
593	00010000/int16	0	-1999	19999	0 / 0	"ME5 "	

**Parameter "HdEF"**

Description element (subindex)							
PNU dez.	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index	Name	Note
307	00010000/int16	0	0	1	0 / 0	"AA1m"	
308	00010000/int16	0	0	1	0 / 0	"AA2m"	
309	00010000/int16	0	0	1	0 / 0	"AA3m"	
310	00010000/int16	0	0	1	0 / 0	"AA4m"	
311	00010000/int16	0	0	1	0 / 0	"AAU "	
312	00010000/int16	0	0	2	0 / 0	"AE1m"	
313	00010000/int16	0	0	2	0 / 0	"AE2m"	
314	00010000/int16	0	0	2	0 / 0	"AE3m"	
315	00010000/int16	0	0	4	0 / 0	"AE4m"	
316	00010000/int16	0	0	4	0 / 0	"AE5m"	
317	00010000/int16	0	0	2	0 / 0	"AE6m"	
318	00010000/int16	0	0	2	0 / 0	"AE7m"	
319	00010000/int16	0	0	2	0 / 0	"AE8m"	
320	00010000/int16	0	0	1	0 / 0	"AEFr"	
321	00010000/int16	0	0	1	0 / 0	"bAtt"	
322	00010000/int16	0	0	1	0 / 0	"bAU "	
323	00010000/int16	0	0	1	0 / 0	"dA-L"	
324	00010000/int16	0	0	1	0 / 0	"dPon"	
325	00010000/int16	0	0	254	0 / 0	"nAME"	
326	00010000/int16	0	0	6	0 / 0	"oP 5"	
327	00010000/int16	0	0	6	0 / 0	"oP 6"	
328	00010010/int16	0	0	1	0 / 0	"SES "	
329	00010000/int16	0	0	2	0 / 0	"tA1U"	
330	00010000/int16	0	0	2	0 / 0	"tA2U"	
331	00010000/int16	0	0	2	0 / 0	"tA3U"	
332	00010000/int16	0	0	2	0 / 0	"tA4U"	

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Description element (subindex)							
PNU dez.	Identification/ datatype	Array/ numb.	min value	max value	variabl/ convers. index	Name	Note
333	00010000/int16	0	0	2	0 / 0	"tA5U"	
334	00010000/int16	0	0	2	0 / 0	"tA6U"	
335	00010000/int16	0	0	2	0 / 0	"tA7U"	
594	00010000/int16	0	0	1	0 / 0	"AA5m"	
595	00010000/int16	0	0	1	0 / 0	"AA6m"	
596	00010000/int16	0	0	1	0 / 0	"AA7m"	
597	00010000/int16	0	0	1	0 / 0	"AA8m"	
598	00010000/int16	0	0	1	0 / 0	"AA9m"	
599	00010000/int16	0	0	2	0 / 0	"AE9m"	
600	00010000/int16	0	0	2	0 / 0	"AEA m"	
601	00010000/int16	0	0	2	0 / 0	"AEB m"	



**Freely interconnectable area**

Description element (subindex)							
PNU dez.	Identification/ datatype	Array numb.	min value	max value	variabl/ convers. index	Name	Note
394	01010000/os2	106	00	00FF	0 / 0	"Fdef"	
395	01010000/os2	250	00	00FF	0 / 0	"FC_1"	
396	01010000/os2	250	00	00FF	0 / 0	"FC_2"	
397	01010000/os2	28	00	00FF	0 / 0	"FC_3"	
398	01010000/os2	250	00	00FF	0 / 0	"FC_4"	
399	01010000/os2	250	00	00FF	0 / 0	"FC_5"	
400	01010000/os2	28	00	00FF	0 / 0	"FC_6"	
401	01010000/ os2	175	00	00FF	0 / 0	"Fpos"	
602	01010000/os2	45	00	00FF	0 / 0	"Fd_2"	
603	01010000/os2	128	00	00FF	0 / 0	"FC_7"	
604	01010000/os2	163	00	00FF	0 / 0	"FC_8"	
605	01010000/os2	128	00	00FF	0 / 0	"FC_9"	
606	01010000/os2	163	00	00FF	0 / 0	"FC_A"	
607	01010000/os2	175	00	00FF	0 / 0	"FP_2"	

**Processvalues (read only)**SIPART  
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PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
336	10000010/bs16	0	0	00FF	0 / 0	"ST4 "		
337	10000010/os2	0	0	FFFF	0 / 0	"Pnt1"		
338	10000010/os2	0	0	FFFF	0 / 0	"Pnt2"		
339	10000010/bs16	0	0	00FF	0 / 0	"STN "   1.)		
340	10000010/os2	0	0	FFFF	0 / 0	"dx1A"		
341	10000010/os2	0	0	FFFF	0 / 0	"dx2A"		
342	10000010/os2	0	0	FFFF	0 / 0	"dx3A"		
343	10000010/os2	0	0	FFFF	0 / 0	"tc "		
344	10000010/bs16	0	0	00FF	0 / 0	"ST12"   2.)		
345	10000010/int16	0	-199.9	199.9	0 / 7FH	"SAA1"		
346	10000010/int16	0	-199.9	199.9	0 / 7FH	"SAA2"		
347	10000010/int16	0	-199.9	199.9	0 / 7FH	"SAA3"		
348	10000010/int16	0	-199.9	199.9	0 / 7FH	"SAA4"		
349	10000010/int16	0	-199.9	199.9	0 / 7FH	"SAA5"		
350	10000010/int16	0	-199.9	199.9	0 / 7FH	"SAA6"		
351	10000010/int16	0	-199.9	199.9	0 / 7FH	"SAA7"		
352	10000010/int16	0	-199.9	199.9	0 / 7FH	"SAA8"		
353	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA43"		
354	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA13"		
355	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA23"		
356	10000010/int16	0	-199.9	199.9	0 / 7FH	"AA33"		

PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
357	10000010/int16	0	-199.9	199.9	0	/7FH	"AE1"	
358	10000010/int16	0	-199.9	199.9	0	/7FH	"AE2"	
359	10000010/int16	0	-199.9	199.9	0	/7FH	"AE3"	
360	10000010/int16	0	-199.9	199.9	0	/7FH	"AE4"	
361	10000010/int16	0	-199.9	199.9	0	/7FH	"AE5"	
362	10000010/int16	0	-199.9	199.9	0	/7FH	"AE6"	
363	10000010/int16	0	-199.9	199.9	0	/7FH	"AE7"	
364	10000010/int16	0	-199.9	199.9	0	/7FH	"AE8"	
365	10000010/bs16	0	0	FFFF	0	/ 0	"ST7/8"	3.)
366	10000010/bs16	0	0	FFFF	0	/ 0	ST9/10	4.)
367	10000010/bs16	0	0	00FF	0	/ 0	"ST11"	5.)
368	10000010/bs16	0	0	FFFF	0	/ 0	"ST3/2"	
608	10000010/int16	0	-199.9	199.9	0	/7FH	"AE9 "	
609	10000010/int16	0	-199.9	199.9	0	/7FH	"AE10"	
610	10000010/int16	0	-199.9	199.9	0	/7FH	"AE11"	
611	10000010/bs16	0	0	00FF	0	/ 0	"ST14"	6.)
612	10000010/bs16	0	0	00FF	0	/ 0	"ST15"	7.)
613	10000010/int16	0	-199.9	199.9	0	/7FH	"S_9"	
614	10000010/int16	0	-199.9	199.9	0	/7FH	"S_10"	
615	10000010/int16	0	-199.9	199.9	0	/7FH	"S_11"	
616	10000010/int16	0	-199.9	199.9	0	/7FH	"S_12"	
617	10000010/int16	0	-199.9	199.9	0	/7FH	"S_13"	
618	10000010/int16	0	-199.9	199.9	0	/7FH	"S_14"	
619	10000010/int16	0	-199.9	199.9	0	/7FH	"S_15"	
620	10000010/int16	0	-199.9	199.9	0	/7FH	"S_16"	
621	10000010/int16	0	-199.9	199.9	0	/7FH	"AA9"	
622	10000010/int16	0	-199.9	199.9	0	/7FH	"AA5"	

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PNU dez.	Description element (subindex)					variabl/ convers. index	Name	Note
	Identification/ datatype	Array numb.	min value	max value				
623	10000010/int16	0	-199.9	199.9	0	/7FH	"AA6"	
624	10000010/int16	0	-199.9	199.9	0	/7FH	"AA7"	
625	10000010/int16	0	-199.9	199.9	0	/7FH	"AA8"	

**Processdata (write-/readable)**

369	10000000/bs16	0	0	00FF	0 / 0		"ST5"	8.)
370	10000000/int16	0	-199.9	199.9	0	/7FH	"SA13"	
371	10000000/int16	0	-199.9	199.9	0	/7FH	"SA23"	
372	10000000/int16	0	-199.9	199.9	0	/7FH	"SA33"	
373	10000000/int16	0	-199.9	199.9	0	/7FH	"SA43"	
374	10000000/int16	0	-199.9	199.9	0	/7FH	"SA53"	
375	10000000/int16	0	-199.9	199.9	0	/7FH	"SA63"	
376	10000000/int16	0	-199.9	199.9	0	/7FH	"SA73"	
377	10000000/int16	0	-199.9	199.9	0	/7FH	"SA83"	
378	10000000/bs16	0	0	00FF	0 / 0		"ST6 "	9.)
626	10000000/bs16	0	0	00FF	0 / 0		"ST13"	10.)
627	10000000/int16	0	-199.9	199.9	0	/7FH	"S_93"	
628	10000000/int16	0	-199.9	199.9	0	/7FH	"S103"	
629	10000000/int16	0	-199.9	199.9	0	/7FH	"S113"	
630	10000000/int16	0	-199.9	199.9	0	/7FH	"S123"	
631	10000000/int16	0	-199.9	199.9	0	/7FH	"S133"	
632	10000000/int16	0	-199.9	199.9	0	/7FH	"S143"	
633	10000000/int16	0	-199.9	199.9	0	/7FH	"S153"	
634	10000000/int16	0	-199.9	199.9	0	/7FH	"S163"	

**Meaning of the bits:**SIPART  
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## 1.) PNU 339: Status "STN" (read only)

BIT 15 : X	BIT 7 : X
BIT 14 : X	BIT 6 : X
BIT 13 : MUF	BIT 5 : X
BIT 12 : SbA5	BIT 4 : X
BIT 11 : SbA4	BIT 3 : X
BIT 10 : SbA3	BIT 2 : X
BIT 9 : SbA2	BIT 1 : X
BIT 8 : SbA1	BIT 0 : X

## 2.) PNU 344: Status "ST12" (SES binary outputs)

BIT 15 : 0	BIT 7 : SbA8
BIT 14 : 0	BIT 6 : SbA7
BIT 13 : 0	BIT 5 : SbA6
BIT 12 : 0	BIT 4 : SbA5
BIT 11 : 0	BIT 3 : SbA4
BIT 10 : 0	BIT 2 : SbA3
BIT 9 : 0	BIT 1 : SbA2
BIT 8 : 0	BIT 0 : SbA1

## 3.) PNU 365: Status "ST7" (binary outputs /read only)

BIT 15 : BA8	BIT 7 : BA16
BIT 14 : BA7	BIT 6 : BA15
BIT 13 : BA6	BIT 5 : BA14
BIT 12 : BA5	BIT 4 : BA13
BIT 11 : BA4	BIT 3 : BA12
BIT 10 : BA3	BIT 2 : BA11
BIT 9 : BA2	BIT 1 : BA10
BIT 8 : BA1	BIT 0 : BA9

## 4.) PNU 366: Status "ST9" (binary inputs /read only)

BIT 15 : BE8	BIT 7 : X
BIT 14 : BE7	BIT 6 : X
BIT 13 : BE6	BIT 5 : BE14
BIT 12 : BE5	BIT 4 : BE13
BIT 11 : BE4	BIT 3 : BE12
BIT 10 : BE3	BIT 2 : BE11
BIT 9 : BE2	BIT 1 : BE10
BIT 8 : BE1	BIT 0 : BE9

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## 5.) PNU 367: Status "ST11" (Message status transmitter fault)

BIT 15 : 0	BIT 7 : AE8#
BIT 14 : 0	BIT 6 : AE7#
BIT 13 : 0	BIT 5 : AE6#
BIT 12 : 0	BIT 4 : AE5#
BIT 11 : 0	BIT 3 : AE4#
BIT 10 : 0	BIT 2 : AE3#
BIT 9 : 0	BIT 1 : AE2#
BIT 8 : 0	BIT 0 : AE1#

## 6.) PNU 611: Status "ST14" (Message status transmitter fault)

BIT 15 : 0	BIT 7 : X
BIT 14 : 0	BIT 6 : X
BIT 13 : 0	BIT 5 : X
BIT 12 : 0	BIT 4 : X
BIT 11 : 0	BIT 3 : X
BIT 10 : 0	BIT 2 : AE11#
BIT 9 : 0	BIT 1 : AE10#
BIT 8 : 0	BIT 0 : AE9#

## 7.) PNU 612: Status "ST15" (SES binary outputs)

BIT 15 : 0	BIT 7 : SbA16
BIT 14 : 0	BIT 6 : SbA15
BIT 13 : 0	BIT 5 : SbA14
BIT 12 : 0	BIT 4 : SbA13
BIT 11 : 0	BIT 3 : SbA12
BIT 10 : 0	BIT 2 : SbA11
BIT 9 : 0	BIT 1 : SbA10
BIT 8 : 0	BIT 0 : SbA9

## 8.) PNU 369: Status "ST5" (SES binary inputs / writeable)

BIT 15 : 0	BIT 7 : SbE8
BIT 14 : 0	BIT 6 : SbE7
BIT 13 : 0	BIT 5 : SbE6
BIT 12 : 0	BIT 4 : SbE5
BIT 11 : 0	BIT 3 : SbE4
BIT 10 : 0	BIT 2 : SbE3
BIT 9 : 0	BIT 1 : SbE2
BIT 8 : 0	BIT 0 : SbE1

## 9.) PNU 378: Status "ST6" (program control / schreiben)

BIT 15 : 0	BIT 7: program control via SES
BIT 14 : 0	BIT 6: program 8 via SES
BIT 13 : 0	BIT 5: program 7 via SES
BIT 12 : 0	BIT 4: program 6 via SES
BIT 11 : 0	BIT 3: program 5 via SES
BIT 10 : 0	BIT 2: program 4 via SES
BIT 9 : 0	BIT 1: program 3 via SES
BIT 8 : 0	BIT 0: program 2 via SES

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## 10.) PNU 626: Status "ST13" (SES binary inputs / writeable)

BIT 15 : 0	BIT 7: SbE16
BIT 14 : 0	BIT 6: SbE15
BIT 13 : 0	BIT 5: SbE14
BIT 12 : 0	BIT 4: SbE13
BIT 11 : 0	BIT 3: SbE12
BIT 10 : 0	BIT 2: SbE11
BIT 9 : 0	BIT 1: SbE10
BIT 8 : 0	BIT 0: SbE9

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