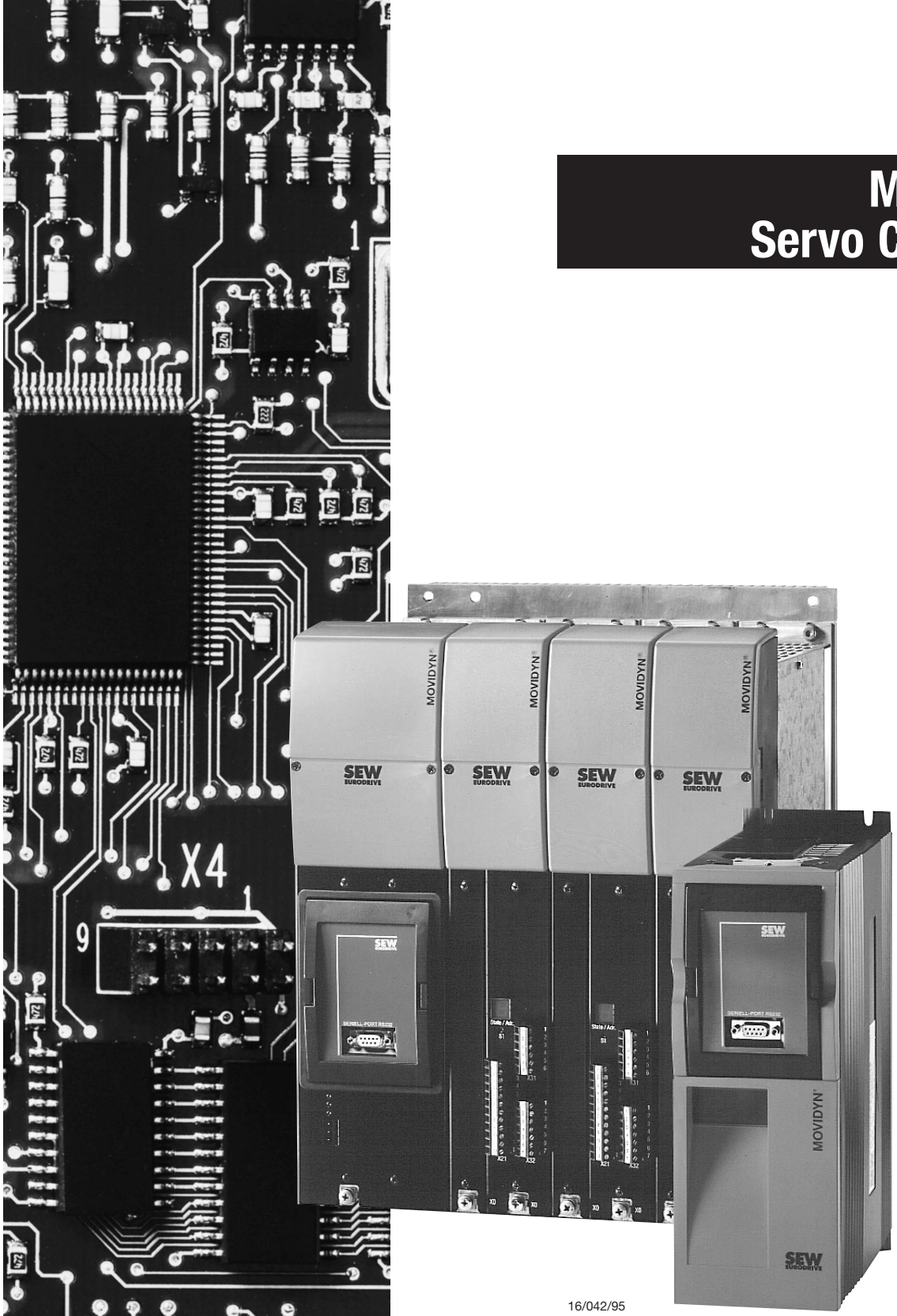
MOVIDYN®
Servo Controller

Parameter List

Edition 07/97



16/042/95

0921 2868 / 0797

TÜV CERT DIN EN ISO 9001

SEW EURODRIVE

Table of Contents

1 Notes on Using the Parameter List

1.1 General

The MOVIDYN® servo controller parameters can be set via three different serial interfaces:

- RS-485 link to the power supply module (terminal X02)
- RS-232 link to the power supply module
  - 9-pintype D connector X01 or
  - USS11A (FIS)
- RS-232 link to the axis module option pcb

The above interfaces provide access to all adjustable parameters and process values of the unit. This requires a special software protocol, as used by the user interface MD_SHELL. Access to the parameters is achieved by transmitting specific messages (frames) from the higher-level control system (PC, PLC, etc.) to the controller. The structure, meaning and use of these messages is described in the SEW documentation "MOVIDYN® Communications Interfaces". This document gives a description of the individual parameters only, since their description is independent of the method and means of their transmission.

1.2 Parameter List Structure

The different servo controller parameters and their characteristics are described in Section 3 as follows:

Index:xxx	**Menu:xxx**	**Parameter description**	
Minimum:- **Maximum:-**	**Step size and range:-**	**Access:** **Format:**	**R/W** **A**

Index:

Each parameter is addressed by an index which is uniquely assigned to it. The index numbers are given in decimal notation and sorted in ascending order. The indices which are given refer to communication via the serial interfaces.

If communication is via **fieldbus**, 1000_{dec} is added to the respective index.

Menu:

This position gives the menu number which is assigned to the parameter in the MD_SHELL user interface.

Parameter designation:

Designation and physical unit of the parameter.

Minimum:

Smallest possible value which the parameter can have.

Maximum:
Largest possible value which the parameter can have.

Step size and range:

Each parameter can only take certain definite values between its minimum and its maximum, i.e. the value changes in steps of a defined size. In some cases it is possible to change the value of a parameter in differently sized steps. In this case the corresponding step size is given for each range of values. If the step sizes are ignored and intermediate values are transmitted, then it is not possible to guarantee fault-free operation of the unit.

Meaning:

For some parameters, each numerical value indicates a specific (unit) function or a particular meaning, (e.g. terminal assignment or unit status). All the possible functions and their corresponding numerical values are listed in this part of the description.

Access:

Indicates the access rights to the parameter.

- "R" ("Read") indicates that the parameter can be read.
- "W" ("Write") indicates that the parameter can be written to.

Format:

Indicates the transmission format for that parameter .
These data formats are explained in Section 2.

- "A" stands for BCD format.
- "B" stands for bit format.
- "C" stands for hex format.

1.3 Versions / Modification Documentation

The following list describes the changes, which have been made as a result of software extensions. The actual parameter list always comprises all the available parameters (and their ranges). It will then depend on the unit version and the options fitted whether a particular parameter can be addressed.

Edition 1 / 96	MKS 51A - ...-00 MAS 51A - ...-00	MKS 51A - ... -50 MAS 51A - ... -50
	Version 15 (without Section 3.4)	Version 71 (incl. Section 3.4)

2 Data Formats

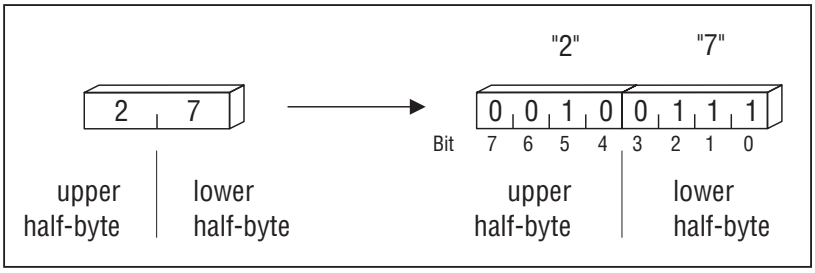
The transmission of the parameter values via the serial interfaces is made in a numerical format. All "text strings", such as YES, NO, ON, OFF etc. are given numerical values, which are specified in the following list for each parameter.

The parameter values are transmitted by means of special data messages which are described in detail in the "MOVIDYN® Communications Interfaces" documentation. There are three different formats of data transmission:

2.1 Format A

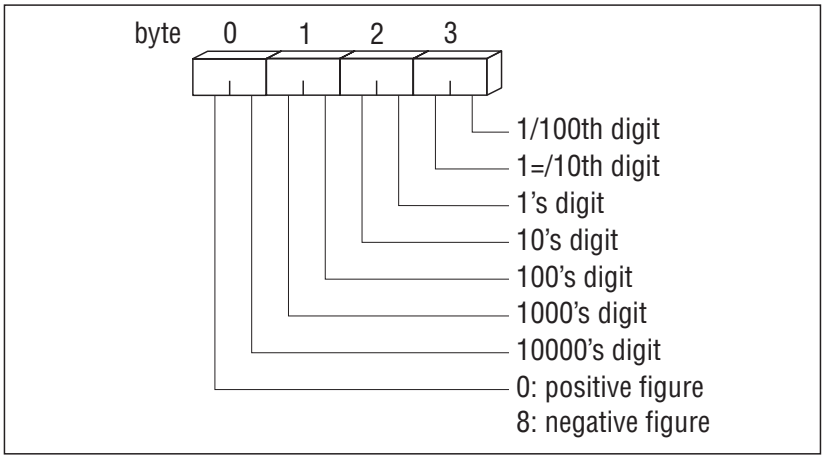
Each value takes up four bytes of a message. The representation is made in BCD (binary-coded decimal) format.

In BCD format the four bits of a byte represent a number from 0 to 9. This means that a byte can be used to represent a value between 00 and 99. The following diagram shows the value "27" in BCD format in one byte:



00258AEN

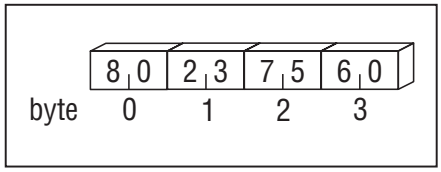
Each byte has a fixed meaning assigned to it within the 4-byte BCD representation of the parameter values:



00259AEN

Example 1:

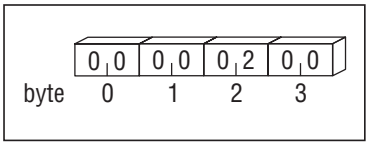
The following example shows the 4-byte BCD representation of the parameter "111 setpoint serial interface", which is to have a value of -2375.6 rpm.



00260AEN

Example 2:

Terminal X21.6 is to be programmed to "/CONTROLLER INHIBIT". This means that the numerical value 2.00 must be sent to the servo controller under index 52.



00261AEN

2.2 Format B

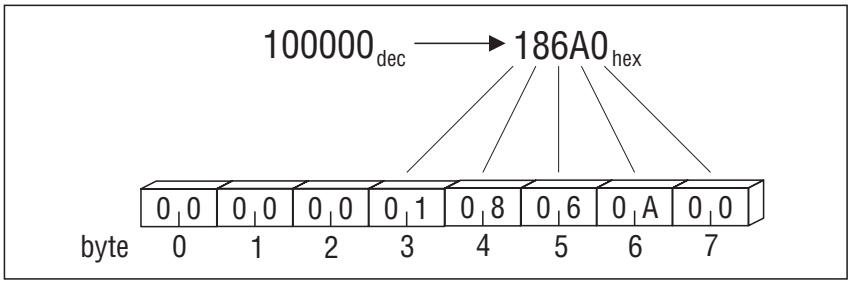
In format B the individual bits or bytes have characteristics or functions assigned to them. Parameters in this format (e.g. index 0, unit status, terminal states, etc.) are transmitted uncoded. For these parameters the exact assignment of the four data bytes is given in the parameter list.

2.3 Format C

Format C is used to transmit parameters with a 32-bit coded value range, using a LONG-SELECT or a LONG-DATA message as means of transmission. This format is mainly used by IPOS parameters. The original value (32 bit) is split up into half-bytes and each half-byte is then transmitted in one message byte.

Example:

In the example below the "PC position setpoint" parameter (index 1012) is transmitted. The setpoint is to have the value 100000_{dec} increments.



00262AEN

3 Parameter Characteristics

3.1 Standard Parameters

Index: 0	Menu: -	Unit status
Minimum: -	**Step size and range:-**	**Access:** R
Maximum: -		**Format:** B

The following description shows the assignment of the 4 bytes.

"controller enabled/inhibited" signal (1: enable)
"24 Volt" signal (1: 24 volts)
-
-
-
-
-
-

Unit status

Fault code
(Description see index 16)

Byte 0 Not used

Unit status

0	-
1	normal operation
2	torque control
3	rapid stop
4	controller inhibit
5	limit switch CW
6	limit switch CCW
7	API / APA active
8	factory setting active
9	hold control
10	positioning
11	not ready

00263AEN

Index: 1	Menu: 001	Speed [rpm]
Minimum: -	**Step size and range:-**	**Access:** R
Maximum: -		**Format:** A

Index: 2	Menu: 000	Current [% In]
Minimum: -	**Step size and range:-**	**Access:** R
Maximum: -		**Format:** A

Index: 3	Menu: 002	Heat sink temperature [°C]
Minimum: -	**Step size and range:-**	**Access:** R
Maximum: -		**Format:** A

Index: 4	Menu: 003	Utilization [%]
Minimum: -	Step size and range:-	Access: R
Maximum: -		Format: A

Index: 5	Menu: -	*Reserved*

Index: 6	Menu: 010	Analogue input 1 [V]
Minimum: -	Step size and range:-	Access: R
Maximum: -		Format: A

Index: 7	Menu: 020	Analogue input 2 [V]
Minimum: -	Step size and range:-	Access: R
Maximum: -		Format: A

Index: 8	Menu: -	*Reserved*

Index: 9	Menu: 071	Option pcb type
Minimum: -	Meaning:	Access: R
Maximum: -	0.00 SHORT CIRCUIT	Format: A
	1.00 invalid	
	2.00 FIELDBUS	
	3.00 API/APA12	
	4.00 invalid	
	5.00 AIO11	
	6.00 invalid	
	7.00 invalid	
	8.00 invalid	
	9.00 NO PCB FITTED	

Index: 10	Menu: 070	Axis module rated current
Minimum: -	Meaning:	Access: R
Maximum: -	0.00 -	Format: A
	1.00 3A	
	2.00 60A	
	3.00 45A	
	4.00 30A	
	5.00 25A	
	6.00 15A	
	7.00 10A	
	8.00 5A	
	9.00 -	

Index: 11	Menu: -	*Reserved*

Index: 12	Menu: 080	Fault t-0
	see index 16	

Index: 13	Menu: 081	Fault t-1
see index 16		

Index: 14	Menu: 082	Fault t-2
see index 16		

Index: 15	Menu: 083	Fault t-3
see index 16		

Index: 16 Menu: 084 Fault t-4

Minimum: -
Maximum: -
Meaning:
Access: R
Format: A

0.00	no fault
1.00	axis module overcurrent
2.00	reserved
3.00	power supply module overtemperature
4.00	reserved
5.00	communications bus link defective
6.00	power supply module earth fault
7.00	power supply module DC link fault
8.00	speed monitoring
9.00	switch S1 AIO11 set to “current”
10.00	IPOS: ILLOP (illegal command)
11.00	axis module overtemperature
12.00	reserved
13.00	reserved
14.00	resolver fault
15.00	power supply module internal 24V supply
16.00	reserved
17.00	stack overflow
18.00	stack underflow
19.00	non maskable interrupt
20.00	undefined operation code
21.00	protected instruction
22.00	illegal operand access
23.00	illegal instruction access
24.00	illegal bus access
25.00	EEPROM fault
26.00	external terminal
27.00	open-circuited or missing limit switches
28.00	fieldbus process data timeout
29.00	limit switches reversed
30.00	limit switch emergency stop timeout
31.00	short-circuit output terminals
32.00	reserved
33.00	reserved
34.00	fieldbus communication timeout
35.00	reserved
36.00	necessary hardware not installed
37.00	reserved
38.00	reserved
39.00	fault reference travel
40.00	boot synchronisation timeout

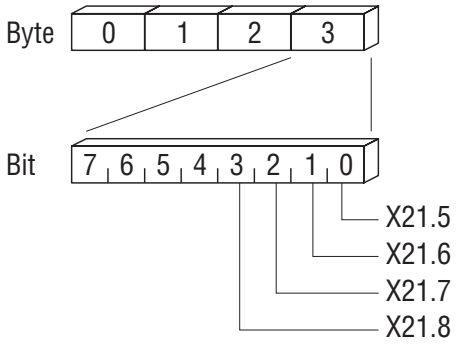
41.00	servo module watchdog
42.00	positioning lag error
43.00	PC timeout
44.00	reserved
45.00	reserved
46.00	reserved
47.00	reserved
48.00	reserved
49.00	reserved
50.00	positive hardware limit switch
51.00	negative hardware limit switch
52.00	positive software limit switch
53.00	negative software limit switch
54.00	reference position not defined
55.00	machine parameter incorrect
56.00	necessary hardware not installed
57.00	program does not exist
58.00	program line number does not exist
59.00	subroutine does not exist
60.00	target position outside travel range
61.00	programmed speed greater than Vmax
62.00	flash EPROM
63.00	division by zero
64.00	subroutine nesting depth
65.00	LM628 command error
66.00	program memory full
67.00	time out in remote operation
68.00	target position not attained
69.00	no feed enable
70.00	absolute encoder interface fault SSI (coded)
71.00	CAN bus fault (coded)
72.00	index overflow (indexed addressing)
73.00	illegal command during axis movement
74.00	position outside range
75.00	reserved for further APx faults
76.00	teach error
77.00	illegal control value
78.00	software limit switch
79.00	reserved
80.00	reserved
81.00	reserved
82.00	reserved
83.00	reserved
84.00	reserved
85.00	reserved
86.00	reserved
87.00	fieldbus timeout

Index: 17	**Menu: 072**	**EPROM version number (low)**
Minimum: -	**Step size and range:-**	**Access: R**
Maximum: -		**Format: B**

Index: 18	Menu: 073	EPROM version number (high)
Minimum: -	Step size and range:-	Access: R
Maximum: -		Format: B

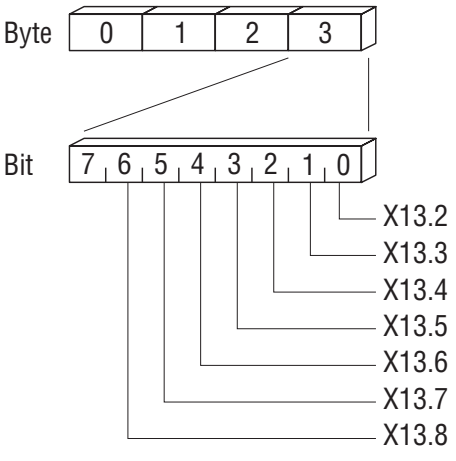
Index: 19	Menu: 030	Status of terminal X21
Minimum: -	Step size and range:-	Access: R
Maximum: -		Format: B

Terminal states are bit-coded and given in byte 3:



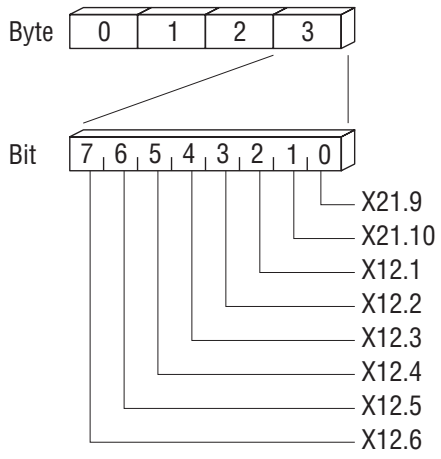
Index: 20	Menu: -	Status of terminal X13
Minimum: -	Step size and range:-	Access: R
Maximum: -		Format: B

Terminal states are bit-coded and given in byte 3:



Index: 21	Menu: -	Status of terminals X21 and X12
Minimum: -	**Step size and range:-**	**Access: R**
Maximum: -		**Format: B**

Terminal states are bit-coded and given in byte 3:



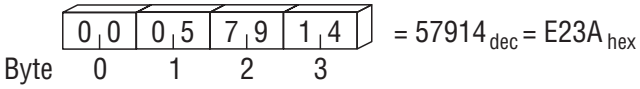
00266Axx

Index: 22	Menu: 004	Position [incr.]
Minimum: -	**Step size and range:-**	**Access: R**
Maximum: -		**Format: A**

The position is made up of the values of parameters 22 and 23. The following example shows how the position value is coded.

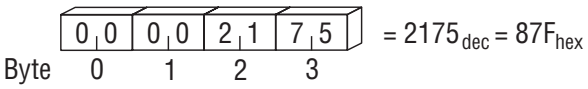
Example: A value 87FE23A $_{hex}$ = 142,598,714 increments is sent.

Index 23 contains the less significant word in BCD code:



00267AEN

Index 22 contains the more significant word:



00268AEN

Both figures put together give the above 87FE23A hex code.

Index: 23	Menu: 004	Position [incr.]
	see index 22	

Index: 24	Menu: -	***Reserved***

Index: 25	Menu: -	***Reserved***

Index: 25	Menu: -	*Reserved*

Index: 26	Menu: -	*Reserved*

Index: 27	Menu: -	*Reserved*

Index: 28	Menu: -	*Reserved*

Index: 30	Menu: 100	Operating mode

Minimum: 0.00
Maximum: 2.0

Meaning:
00.00 speed control
1.00 torque control
2.00 positioning

Access: R/W
Format: A

Index: 31	Menu: 120	Ramp 1 up CW [s]

Minimum: 0.00
Maximum: 30.00

Step size and range:
0.00 - 0.50 Step 0.02
0.50 - 3.00 Step 0.10
3.00 - 10.00 Step 0.50
10.00 - 30.00 Step 2.00

Access: R/W
Format: A

Index: 32	Menu: 121	Ramp 1 down CW [s]

see index 31

Index: 33	Menu: 130	Ramp 2 up CW [s]

see index 31

Index: 34	Menu: 131	Ramp 2 down CW [s]

see index 31

Index: 35	Menu: 140	Rapid stop ramp [s]

see index 31

Index: 36	Menu: 150	Emergency stop ramp [s]

Minimum: 0.00
Maximum: 10.00

Step size and range:
0.00 - 0.50 Step 0.2
0.50 - 3.00 Step 0.10
3.00 - 10.00 Step 0.50

Access: R/W
Format: A

Index: 37	Menu: 200	Gain speed controller

Minimum: 0.10
Maximum: 32.00

Step size and range:
0.10 - 32.00 Step 0.01

Access: R/W
Format: A

Index: 38	Menu: 201	Time constant speed controller [ms]
Minimum: 0.00 **Maximum:** 300.00	**Step size and range:** 0.00 - 1.00 Step 1.00 1.00 - 50.00 Step 0.10 50.00 - 300.00 Step 1.00	**Access:** R/W **Format:** A

Index: 39	Menu: 660	MOVIDYN® response time
Minimum: 0.00 **Maximum:** 200.00	**Step size and range:** 0.00 - 200.00 Step 5.00	**Access:** R/W **Format:** A

Index: 40	Menu: -	*Reserved*

Index: 41	Menu: -	*Reserved*

Index: 42	Menu: -	*Reserved*

Index: 43	Menu: 210	Max. speed CW [rpm]
	see index 44	

Index: 44	Menu: 211	Max. speed CCW [rpm]
Minimum: 0.00 **Maximum:** 5000.00	**Step size and range:** 0.00 - 5000.00 Step 1.00	**Access:** R/W **Format:** A

Index: 45	Menu: 212	Max. current CCW [%]
Minimum: 45.00 **Maximum:** 150.00	**Step size and range:** 45.00 - 150.00 Step 1.00	**Access:** R/W **Format: A**

Index: 46	Menu: -	*Reserved*

Index: 47	Menu: -	*Reserved*

Index: 48	Menu: -	*Reserved*

Index: 49	Menu: -	*Reserved*

Index: 50	Menu: -	*Reserved*

Index: 51	Menu: -	*Reserved*

Index: 52	Menu: 300	Programming terminal X21.6
Minimum: 0.00	**Meaning:**	**Access:** R/W
Maximum: 11.00	0.00 ENABLE	**Format:** A
	1.00 RAMP GENERATOR SELECTION	
	2.00 /CONTROLLER INHIBIT	
	3.00 HOLD CONTROL	
	4.00 /EXTERNAL FAULT	
	5.00 RESET	
	6.00 REFERENCE TRAVEL	
	7.00 EXTERNAL TRIGGER	
	8.00 NO FUNCTION	
	9.00 /LIMIT SWITCH CW	
	10.00 /LIMIT SWITCH CCW	
	11.00 REFERENCE CAM	

Index: 53	Menu: 301	Programming terminal X21.7
	see index 52	

Index: 54	Menu: 302	Programming terminal X21.8
	see index 52	

Index: 55	Menu: 320	Programming terminal X21.10
Minimum: 0.00	**Meaning:**	**Access:** R/W
Maximum: 17.00	0.00 IxT WARNING	**Format:** A
	1.00 READY FOR OPERATION	
	2.00 /FAULT	
	3.00 /BRAKE	
	4.00 SPEED REFERENCE	
	5.00 CURRENT REFERENCE	
	6.00 SETPOINT/ACTUAL VALUE COMPARISON	
	7.00 MOTOR AT REST	
	8.00 NO FUNCTION	
	9.00 IN POSITION	
	10.00 POS. OUTPUT 1	
	11.00 POS. OUTPUT 2	
	12.00 POS. OUTPUT 3	
	13.00 POS. OUTPUT 4	
	14.00 POS. OUTPUT 5	
	15.00 POS. OUTPUT 6	
	16.00 POS. OUTPUT 7	
	17.00 POS. OUTPUT 8	

Index: 56	Menu: 330	Programming terminal X12.1
	see index 55	

Index: 57	Menu: 331	Programming terminal X12.2
	see index 55	

Index: 58	Menu: 340	Analogue output 1 (X14.6)
Minimum: 0.00 **Maximum:** 4.00	**Meaning:** 0.00 CURRENT SETPOINT 1.00 SPEED ACTUAL VALUE 2.00 RAMP GENERATOR SETPOINT 3.00 RAMP GENERATOR ACTUAL VALUE 4.00 IxT UTILIZATION	**Access: R/W** **Format: A**

Index: 59	Menu: 341	Weighting factor 1
Minimum: -5.00 **Maximum:** 5.00	**Step size and range:** -5.00 - 5.00 Step 0.10	**Access: R/W** **Format: A**

Index: 60	Menu: 342	Analogue output 2 (X14.7)
	see index 58	

Index: 61	Menu: 343	Weighting factor 2
	see index 59	

Index: 62	Menu: 510	Speed monitoring
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 NO 1.00 YES	**Access: R/W** **Format: A**

Index: 63	Menu:511	Speed monitoring timeout [s]
Minimum: 0.00 **Maximum:** 10.00	**Step size and range:** 0.00 - 10.00 Step 0.10	**Access: R/W** **Format: A**

Index: 64	Menu: -	*Reserved*

Index: 65	Menu: -	*Reserved*

Index: 66	Menu: -	*Reserved*

Index: 67	Menu: -	*Reserved*

Index: 68	Menu: 600	Ready signal delay [s]
Minimum: 0.00 **Maximum:** 9.00	**Step size and range:** 0.00 - 9.00 Step 1.00	**Access: R/W** **Format: A**

Index: 69	Menu: 500	Brake function
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 NO 1.00 YES	**Access: R/W** **Format: A**

Index: 70	Menu: 501	Brake reaction time [ms]
Minimum: 0.00	**Step size and range:-**	**Access: R/W**
Maximum: 1000.00	0.00 - 1000.00 Step 1.00	**Format: A**

Index: 71	Menu: 640	Parameter lock
Minimum: 0.00	**Meaning:**	**Access: R/W**
Maximum: 1.00	0.00 NO	**Format: A**
	1.00 YES	

Index: 72	Menu: 650	Save to EEPROM
Minimum: 0.00	**Meaning:**	**Access: R/W**
Maximum: 1.00	0.00 NO	**Format: A**
	1.00 YES	

Index: 73	Menu: 610	Factory setting
Minimum: 0.00	**Meaning:**	**Access: R/W**
Maximum: 1.00	0.00 NO	**Format: A**
	1.00 YES	

Index: 74	Menu: 630	Auto reset function
Minimum: 0.00	**Meaning:**	**Access: R/W**
Maximum: 1.00	0.00 NO	**Format: A**
	1.00 YES	

Index: 75	Menu: 631	Restart time to auto reset [s]
Minimum: 3.00	**Step size and range:**	**Access: R/W**
Maximum: 30.00	3.00 - 30.00 Step 1.00	**Format: A**

Index: 76	Menu: 632	Manual reset
Minimum: 0.00	**Meaning:**	**Access: R/W**
Maximum: 1.00	0.00 NO	**Format: A**
	1.00 YES	

Index: 77	Menu: -	*Reserved*

Index: 78	Menu: -	*Reserved*

Index: 79	Menu: 110	Setpoint source
Minimum: 0.00	**Meaning:**	**Access: R/W**
Maximum: 3.00	0.00 ANALOGUE INPUT	**Format: A**
	1.00 API/APA12 OPTION PCB	
	2.00 PC INTERFACE	
	3.00 FIELDBUS	

Index: 80	Menu: 111	Setpoint serial interface
Minimum: -5000.00	**Step size and range:**	**Access: R/W**
Maximum: +5000.00	-5000.00 to +5000.00 Step 2.00	**Format: A**

The value of this parameter must be interpreted differently depending on index 30, menu 100 “operating mode”:

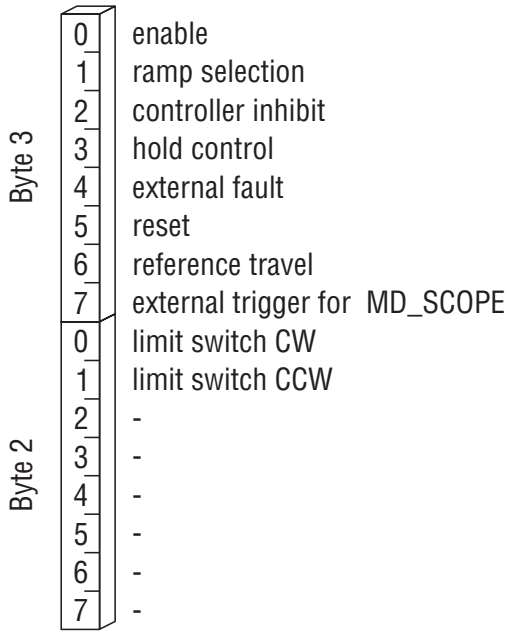
Operating mode	**Parameter value P means**	**Formula for conversion**
Speed control	Speed setpoint D [rpm]	D = P
Torque control	Current setpoint S [%]	$S = \frac{1}{20} \cdot P$ for $\lvert P \rvert \leq 3000$ (for $\lvert P \rvert > 3000$ S = 150)

Examples:

	Value of index 80		
	1000.0	**-3000.0**	**4000.0**
Speed control	1000 rpm	-3000 rpm	4000 rpm
Torque control	50%	-150%	150%

Index: 81	Menu: -	Remote Functions
Minimum: -	**Step size and range:**	**Access: R/W**
Maximum: -		**Format: B**

The individual bits serve to activate the pertinent system function. To do this index 79 must be set to 2 (“PC INTERFACE“).
The assignment of the 4 bytes is as follows:



Byte 1: not assigned
Byte 2: not assigned

00269AEN

Index: 82	Menu: -	*Reserved*

Index: 83	Menu: 620	Fault response	
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 IMMEDIATE SWITCH-OFF 1.00 EMERGENCY STOP RAMP		**Access: R/W** **Format: A**

Index: 84	Menu: -	*Reserved*

Index: 85	Menu: -	*Reserved*

Index: 86	Menu: -	*Reserved*

Index: 87	Menu: -	*Reserved*

Index: 88	Menu: -	*Reserved*

Index: 89	Menu: -	*Reserved*

Index: 90	Menu: 122	Ramp 1 up CCW (s)
	see index 31	

Index: 91	Menu: 123	Ramp 1 down CCW (s)
	see index 31	

Index: 92	Menu: 132	Ramp 2 up CCW (s)
	see index 31	

Index: 93	Menu: 133	Ramp 2 down CCW (s)
	see index 31	

Index: 94	Menu: 220	Gain hold controller	
Minimum: 0.10 **Maximum:** 32.00	**Step size and range:** 0.10 - 32.00 Step 0.10		**Access: R/W** **Format: A**

Index: 95	Menu: -	*Reserved*

Index: 96	Menu: -	Reversal	
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 NO 1.00 YES		**Access: R/W** **Format: A**

Index: 97	Menu: 101	Factor for analogue setpoints	
Minimum: 0.10 **Maximum:** 10.00	**Step size and range:** 0.10 - 10.00 Step 0.01		**Access: R/W** **Format: A**

Index: 98	Menu: 310	Programming terminal X13.2
	see index 52	

Index: 99	Menu: 311	Programming terminal X13.3

	see index 52	

Index: 100	**Menu: 312**	**Programming terminal X13.4**
	see index 52	

Index: 101	**Menu: 313**	**Programming terminal X13.5**
	see index 52	

Index: 102	**Menu: 314**	**Programming terminal X13.6**
	see index 52	

Index: 103	**Menu: 315**	**Programming terminal X13.7**
	see index 52	

Index: 104	**Menu: 316**	**Programming terminal X13.8**
	see index 52	

Index: 105	**Menu: -**	***Reserved***

Index: 106	**Menu: 633**	**Response to MP reset**	
Minimum: 0.00	**Meaning:**		**Access:** **R/W**
Maximum: 1.00	0.00	NO RESPONSE	**Format:** **A**
	1.00	PERFORM RESET	

Index: 107	**Menu: -**	**PC setpoint timeout [s]**	
Minimum: 0.00	**Step size and range:**		**Access:** **R/W**
Maximum: 10.00	0.00	TIMEOUT INACTIVE	**Format:** **A**
	0.10 - 10.0	Step 0.10	

Index: 108	**Menu: 400**	**Reference speed [rpm]**	
Minimum: 0.00	**Step size and range:**		**Access:** **R/W**
Maximum: 5000.00	0.00 - 5000.00	Step 1.00	**Format:** **A**

Index: 109	**Menu: 401**	**Hysteresis 1 [rpm]**	
Minimum: 0.00	**Step size and range:**		**Access:** **R/W**
Maximum: 500.00	0.00 - 500.00	Step 1.00	**Format:** **A**

Index: 110	**Menu: 402**	**Delay [s]**	
Minimum: 0.00	**Step size and range:**		**Access:** **R/W**
Maximum: 9.00	0.00 - 9.00	Step 1.00	**Format:** **A**

Index: 111	Menu: 403	Signal = "1" if:
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 n < n ref 1.00 n > n ref	**Access:** R/W **Format:** A

Index: 112	Menu: 410	Reference current Iref/In [%]
Minimum: 0.00 **Maximum:** 150.00	**Step size and range:** 0.00 - 150.00 Step 1.00	**Access:** R/W **Format:** A

Index: 113	Menu: 411	Hysteresis 2 ± [%]
Minimum: 0.00 **Maximum:** 10.00	**Step size and range:** 0.00 - 10.00 Step 1.00	**Access:** R/W **Format:** A

Index: 114	Menu: 412	Delay [s]
Minimum: 0.00 **Maximum:** 9.00	**Step size and range:** 0.00 - 9.00 Step 0.10	**Access:** R/W **Format:** A

Index: 115	Menu: 413	Signal = "1" if:
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 I < I ref 1.00 I > I ref	**Access:** R/W **Format:** A

Index: 116	Menu: 420	Delay [s]
Minimum: 0.00 **Maximum:** 9.00	**Step size and range:** 0.00 - 9.00 Step 0.10	**Access:** R/W **Format:** A

Index: 117	Menu: 421	Signal = "1" if:
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 n<> n setp 1.00 n = n setp	**Access:** R/W **Format:** A

Index: 118	Menu: 430	IxT reference value [% In]
Minimum: 0.00 **Maximum:** 100.00	**Step size and range:** 0.00 - 100.00 Step 1.00	**Access:** R/W **Format:** A

Index: 119	Menu: 203	Feedforward threshold [rpm/ms]
Minimum: 0.00 **Maximum:** 3000.00	**Step size and range:** 0.00 - 3000.00 Step 2.00	**Access:** R/W **Format:** A

Index: 120	Menu: 204	Feedforward gain
Minimum: 0.00 **Maximum:** 80.00	**Step size and range:** 0.00 - 1.00 Step 0.01 1.00 - 80.00 Step 0.02	**Access:** R/W **Format:** A

Index: 121	Menu: 205	Feedforward filter
Minimum: 0.00 **Maximum:** 100.00	**Step size and range:** 0.00 - 100.00 Step 0.10	**Access:** R/W **Format:** A

Index: 122	Menu: 206	Speed setpoint filter
	see index 121	

Index: 123	Menu: 207	Speed actual value filter
Minimum: 0.00 **Maximum:** 32.00	**Step size and range:** 0.00 - 1.00 Step 1.00 1.00 - 32.00 Step 0.10	**Access:** R/W **Format:** A

Index: 124	Menu: 634	Axis module reset button
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 ENABLED 1.00 DISABLED	**Access:** R/W **Format:** A

Index: 125	Menu: 102	Offset for analogue setpoint 1 [mV]
Minimum: -500.00 **Maximum:** +500.00	**Step size and range:** -500.00 - +500.00 Step 1.00	**Access:** R/W **Format:** A

Index: 126	Menu: 202	D component speed controller
Minimum: 0.00 **Maximum:** 32.00	**Step size and range:** 0.00 - 32.00 Step 0.10	**Access:** R/W **Format:** A

Index: 127	Menu: -	*Reserved*

Index: 128	Menu: 332	Programming terminal X12.3
	see index 55	

Index: 129	Menu: 333	Programming terminal X12.4
	see index 55	

Index: 130	Menu: 334	Programming terminal X12.5
	see index 55	

Index: 131	Menu: 335	Programming terminal X12.6
	see index 55	

Index: 132	Menu: 208	7-segment test display
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 OFF 1.00 ON	**Access:** R/W **Format:** A

Index: 133	Menu: 209	Controller test function
	see index 132	

Index: 165	Menu: 103	Analogue input mode 2
Minimum: 0.00 **Maximum:** 3.00	**Meaning:** 0.00 reserved 1.00 external current limit 2.00 reserved 3.00 no function	**Access: R/W** **Format: A**

3.2 Fault Memory

Index: 400	Menu: -	Fault t-0:	Standard terminals
Minimum: - **Maximum:** -	**Step size and range: -**		**Access: R** **Format: A**

Index: 401	Menu: -	Fault t-0:	Option terminals
Minimum: - **Maximum:** -	**Step size and range: -**		**Access: R** **Format: A**

Index: 402	Menu: -	Fault t-0:	Option terminals
Minimum: - **Maximum:** -	**Step size and range: -**		**Access: R** **Format: A**

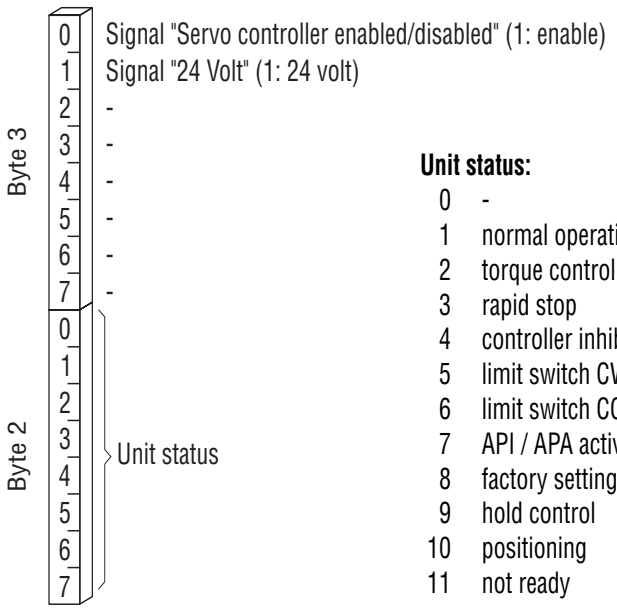
Index: 403	Menu: -	Fault t-0:	Current [% In]
Minimum: - **Maximum:** -	**Step size and range: -**		**Access: R** **Format: A**

Index: 404	Menu: -	Fault t-0:	Speed [rpm]
Minimum: - **Maximum:** -	**Step size and range: -**		**Access: R** **Format: A**

Index: 405	Menu: -	Fault t-0:	Utilization [%]
Minimum: - **Maximum:** -	**Step size and range: -**		**Access: R** **Format: A**

Index: 406	Menu: -	Fault t-0:	Unit status
Minimum: -	**Step size and range: -**		**Access: R**
Maximum: -			**Format: B**

The following description shows the assignment of the 4 bytes



Byte 1 not used
Byte 0 not used

00270AEN

Index: 407	Menu: -	Fault t-0:	Temperature [°C]
Minimum: -	**Step size and range:**		**Access: R**
Maximum: -			**Format: A**

Index: 408	Menu: -	Fault t-1:	Standard terminals
	see index 400		

Index: 409	Menu: -	Fault t-1:	Option terminals
	see index 401		

Index: 410	Menu: -	Fault t-1:	Output terminals
	see index 402		

Index: 411	Menu: -	Fault t-1:	Current [% In]
	see index 403		

Index: 412	Menu: -	Fault t-1:	Speed [rpm]
	see index 404		

Index: 413	Menu: -	Fault t-1:	Utilization [%]
	see index 405		

Index: 414	Menu: -	Fault t-1:	Unit status
	see index 406		

Index: 415	Menu: -	Fault t-1:	Temperature [°C]
see index 407			

Index: 416	Menu: -	Fault t-2:	Standard terminals
see index 400			

Index: 417	Menu: -	Fault t-2:	Option terminals
see index 401			

Index: 418	Menu: -	Fault t-2:	Output terminals
see index 402			

Index: 419	Menu: -	Fault t-2:	Current [% In]
see index 403			

Index: 420	Menu: -	Fault t-2:	Speed [rpm]
see index 404			

Index: 421	Menu: -	Fault t-2:	Utilization [%]
see index 405			

Index: 422	Menu: -	Fault t-2:	Unit status
see index 406			

Index: 423	Menu: -	Fault t-2:	Temperature [°C]
see index 407			

Index: 424	Menu: -	Fault t-3:	Standard terminals
see index 400			

Index: 425	Menu: -	Fault t-3:	Option terminals
see index 401			

Index: 426	Menu: -	Fault t-3:	Output terminals
see index 402			

Index: 427	Menu: -	Fault t-3:	Current [% In]
see index 403			

Index: 428	Menu: -	Fault t-3:	Speed [rpm]
see index 404			

Index: 429	Menu: -	Fault t-3:	Utilization [%]
see index 405			

Index: 430	Menu: -	Fault t-3:	Unit status
see index 406			

Index: 431	Menu: -	Fault t-3:	Temperature [°C]
see index 407			

Index: 432	Menu: -	Fault t-4:	Standard terminals
see index 400			

Index: 433	Menu: -	Fault t-4:	Option terminals
see index 401			

Index: 434	Menu: -	Fault t-4:	Output terminals
see index 402			

Index: 435	Menu: -	Fault t-4:	Current [% In]
see index 403			

Index: 436	Menu: -	Fault t-4:	Speed [rpm]
see index 404			

Index: 437	Menu: -	Fault t-4:	Utilization [%]
see index 405			

Index: 438	Menu: -	Fault t-4:	Unit status
see index 406			

Index: 439	Menu: -	Fault t-4:	Temperature [°C]
see index 407			

3.3 Fieldbus Parameters

Index: 600	Menu: 090	Process data configuration	
Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 5.00	0.00	1PD+Parameter	**Format:** A
	1.00	1PD	
	0.00	2PD+Parameter	
	3.00	2PD	
	4.00	3PD+Parameter	
	5.00	3PD	

Index: 601	Menu: 780	Setpoint description PO1	
Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 10.00	0.00	NO FUNCTION	**Format:** A
	1.00	SPEED	
	2.00	CURRENT	
	3.00	POSITION LO	
	4.00	POSITION HI	
	5.00	MAX. SPEED	
	6.00	MAX. CURRENT	
	7.00	SLIP	
	8.00	RAMP	
	9.00	CONTROL WORD 1	
	10.00	CONTROL WORD 2	

Index: 602	Menu: 782	Setpoint description PO2
	see index 601	

Index: 603	Menu: 784	Setpoint description PO3
	see index 601	

Index: 604	Menu: 781	Actual value description PI1	
Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 7.00	0.00	NO FUNCTION	**Format:** A
	1.00	SPEED	
	2.00	APPARENT CURRENT	
	3.00	ACTIVE CURRENT	
	4.00	POSITION LO	
	5.00	POSITION HI	
	6.00	STATUS WORD 1	
	7.00	STATUS WORD 2	

Index: 605	Menu: 783	Actual value description PI2
	see index 604	

Index: 606	Menu: 785	Actual value description PI3
	see index 604	

Index: 607	Menu: 790	Enable fieldbus setpoints

Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 1.00	0.00	NO	**Format:** A
	1.00	YES	

Index: 608 Menu: 791 Fieldbus timeout [s]

Minimum: 0.01	**Step size and range:**		**Access:** R/W
Maximum: 650.00	0.01 - 1.00	Step 0.01	**Format:** A
	1.00 - 650.00	Step 1.00	

A value of 650.00 means that the timeout feature is off.

Index: 609 Menu: 792 Timeout response

Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 7.00	0.00	RAPID STOP	**Format:** A
	1.00	EMERGENCY STOP	
	2.00	IMMEDIATE SWITCH-OFF	
	3.00	RAPID STOP/FAULT	
	4.00	EMERGENCY STOP/FAULT	
	5.00	IMMEDIATE SWITCH-OFF/FAULT	
	6.00	STANDARD MODE	
	7.00	NO RESPONSE	

Index: 610 Menu: 091 Fieldbus type

Minimum: 0.00	**Meaning:**		**Access:** R
Maximum: 4.00	0.00	NO FIELDBUS	**Format:** A
	1.00	PROFIBUS	
	2.00	INTERBUS-S	
	3.00	BECKHOFF IIO	
	4.00	CAN	

Index: 611 Menu: 092 Fieldbus baud rate [kB]

Minimum: -	**Step size and range:**	**Access:** R
Maximum: -		**Format:** A

Index: 612 Menu: 093 Fieldbus address

Minimum: -	**Step size and range:**	**Access:** R
Maximum: -		**Format:** A

Index: 613 Menu: 094 Setpoint PO1 (hex)

Minimum: -	**Step size and range:**	**Access:** R
Maximum: -		**Format:** A

Index: 614 Menu: 096 Setpoint PO2 (hex)

Minimum: -	**Step size and range:**	**Access:** R
Maximum: -		**Format:** A

Index: 615	Menu: 098	Setpoint PO3 (hex)	
Minimum: -	**Step size and range:**		**Access:** R
Maximum: -			**Format:** A

Index: 616	Menu: 095	Actual value PI1 (hex)	
Minimum: -	**Step size and range:**		**Access:** R
Maximum: -			**Format:** A

Index: 617	Menu: 097	Actual value PI2 (hex)	
Minimum: -	**Step size and range:**		**Access:** R
Maximum: -			**Format:** A

Index: 618	Menu: 099	Actual value PI3 (hex)	
Minimum: -	**Step size and range:**		**Access:** R
Maximum: -			**Format:** A

Index: 619	Menu: -	*Reserved*

Index: 620	Menu: 793	CAN synchronization ID	
Minimum: 1.00	**Step size and range:**		**Access:** R/W
Maximum: 2047.00	0.00 - 2047.00 Step 1.00		**Format:** A

3.4 IPOS Parameters

Index: 700	Menu: -	Reference speed 1 [rpm]	
Minimum: 0.00	**Step size and range:**		**Access:** R/W
Maximum: 5000.00	0.00 - 5000.00 Step: 1.00		**Format:** A

Index: 701	Menu: -	Reference speed 2 [rpm]
	see index 700	

Index: 702	Menu: -	Reference travel type	
Minimum: 0.00	**Step size and range:**		**Access:** R/W
Maximum: 5.00	0.00 - 5.00 Step:1.00		**Format:** A

Index: 703	Menu: -	*Reserved*

Index: 704	Menu: -	IPOS save mode	
Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 2.00	0.00	-	**Format:** A
	1.00	Save to EEPROM	
	2.00	Load from EEPROM	

Index: 705	Menu: -	IPOS operating mode	
Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 5.00	0.00	STOP	**Format:** A
	1.00	START	
	2.00	BREAKPOINT (goto cursor)	
	3.00	STEP	
	4.00	MANUAL MODE	
	5.00	HALT	

Index: 706	Menu: -	IPOS instruction pointer	
Minimum: 0.00	**Step size and range:**		**Access:** R/W
Maximum: 510.00	0.00 - 510.00	Step 1.00	**Format:** A

Index: 707	Menu: -	IPOS breakpoint	
Minimum: 0.0	**Step size and range:**		**Access:** R/W
Maximum: 255.00	0.00 - 255.00	Step 1.00	**Format:** A

Index: 708	Menu: -	Positioning window [incr.]	
Minimum: 0.00	**Step size and range:**		**Access:** R/W
Maximum: 32767.00	0.00 - 32767.00	Step 1.00	**Format:** A

Index: 709	Menu: -	Override	
Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 1.00	0.00	OFF	**Format:** A
	1.00	ON	

Index: 710	Menu: -	Teach terminal	
Minimum: 0.00	**Step size and range:**		**Access:** R/W
Maximum: 15.00	0.00 - 15.00	Step 1.00	**Format:** A

Index: 711	Menu: -	Manual mode	
Minimum: 0.00	**Meaning:**		**Access:** R/W
Maximum: 1.00	0.00	POSITION CONTROL	**Format:** A
	1.00	SPEED CONTROL	

Index: 712	Menu: -	Timeout period [ms]
Minimum: 0.00 **Maximum:** 32767.00	**Step size and range:** 0.00 - 32767.00 Step 1.00	**Access:** R/W **Format:** A

Index: 713	Menu: -	Speed setpoint
Minimum: 0.00 **Maximum:** 3000.00	**Step size and range:** 0.00 - 3000.00 Step 1.00	**Access:** R/W **Format:** A

Index: 714	Menu: -	Code pointer
Minimum: 0.00 **Maximum:** 510.00	**Step size and range:** 0.00 - 510.00 Step 1.00	**Access:** R/W **Format:** A

Index: 715	Menu: -	Data pointer
Minimum: 0.00 **Maximum:** 255.00	**Step size and range:** 0.00 - 255.00 Step 1.00	**Access:** R/W Format: A

Index: 716	Menu: -	Position controller gain
Minimum: 0.10 **Maximum:** 32.00	**Step size and range:** 0.10 - 32.00 Step 0.10	**Access:** R/W **Format:** A

Index: 717	Menu: -	Positioning ramp [s]
Minimum: 0.00 **Maximum:** 10.00	**Step size and range:** 0.00 - 0.50 Step 0.02 0.50 - 3.00 Step 0.10 3.00 - 10.00 Step 0.50	**Access:** R/W **Format:** A

Index: 718	Menu: -	Travel speed CW [rpm]
Minimum: 0.00 **Maximum:** 5000.00	**Step size and range:** 0.00 - 5000.00 Step 1.00	**Access:** R/W **Format:** A

Index: 719	Menu: -	Travel speed CCW [rpm]
	see index 718	

Index: 720	Menu: -	Reference axis
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 NO 1.00 YES	**Access:** R/W **Format:** A

Index: 721	Menu: -	Reference point defined
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 NO 1.00 YES	**Access:** R **Format:** A

Index: 722	Menu: -	IPOS fieldbus mode	
Minimum: 0.00 **Maximum:** 3.00	**Meaning:** 0.00 Bus position setpoint not used 1.00 Bus position setpoint used as manual mode setpoint 2.00 Bus position setpoint used for the GOPA command 3.00 Synchronous mode		**Access: R/W** **Format: A**

Index: 723	Menu: -	Feedforward [%]	
Minimum: -150.00 **Maximum:** +150.00	**Step size and range:** -150.00 - +150.00	Step 0.10	**Access: R/W** **Format: A**

Index: 724	Menu: -	Reverse direction	
Minimum: 0.00 **Maximum:** 1.00	**Meaning:** 0.00 NO 1.00 YES		**Access: R** **Format: A**

Index: 725	Menu: -	Ramp type	
Minimum: 0.00 **Maximum:** 2.00	**Meaning:** 0.00 Linear 1.00 Sine type 2.00 Square		**Access: R/W** **Format: A**

Index: 1000	Menu: -	Reference offset [incr.]	
Minimum: -2^{31} **Maximum:** $+2^{31}-1$	Step size and range: -2^{31} - $+2^{31}-1$	Step 1.00	**Access: R/W** **Format: C**

Index: 1001	Menu: -	SW limit switch CW [incr.]
	see index 1000	

Index: 1002	Menu: -	SW limit switch CCW [incr.]
	see index 1000	

Index: 1003	Menu: -	Lag error window [incr.]
	see index 1000	

Index: 1004	Menu: -	Position setpoint [incr.]
	see index 1000	

Index: 1005	Menu: -	*Reserved*

Index: 1006	Menu: -	*Reserved*

Index: 1007	Menu: -	*Reserved*

Index: 1008	Menu: -	*Reserved*

Index: 1009	Menu: -	Actual position [incr.]
see index 1000		

Index: 1010	Menu: -	Code value
see index 1000		

Index: 1011	Menu: -	Data value
see index 1000		

Index: 1012	Menu: -	PC position setpoint [incr.]
see index 1000		

Index: 1013	Menu: -	*Reserved*

Index: 1014	Menu: -	*Reserved*

Index: 1015	Menu: -	*Reserved*

Index: 1016	Menu: -	*Reserved*

Index: 1017	Menu: -	Lag distance [incr.]	
Minimum: 0.00 **Maximum:** 2^{32}-1		**Step size and range:** 0.00 - 2^{32}-1 Step 1.00	**Access: R** **Format: C**

4 Parameter List Sorted by Menu Number

Menu number	Index	Parameter	
000	2	Current	[% In]
001	1	Speed	[rpm]
002	3	Heat sink temperature	[°C]
003	4	Utilization	[%]
004	22 and 23	Position	[increments]
005	0	Unit version	
006	0	Fault code	
007	0	Unit status	
008	0	External 24V supply	
010	6	Analogue input 1	[V]
020	7	Analogue input 2	[V]
030	19	Binary input X21.5	
031	19 52	Binary input X21.6 Programming the terminal	
032	19 53	Binary input X21.7 Programming the terminal	
033	19 54	Binary input X21.8 Programming the terminal	
040	20 98	Binary input AIO 11 (X13.2) Programming the terminal	
041	20 99	Binary input AIO 11 (X13.3) Programming the terminal	
042	20 100	Binary input AIO 11 (X13.4) Programming the terminal	
043	20 101	Binary input AIO 11 (X13.5) Programming the terminal	
044	20 102	Binary input AIO 11 (X13.6) Programming the terminal	
045	20 103	Binary input AIO 11 (X13.7) Programming the terminal	
046	20 104	Binary input AIO 11 (X13.8) Programming the terminal	
050	21	Binary output X21.9	
051	21 55	Binary output 21.10 Programming the terminal	
060	21 56	Binary output AIO 11 (X12.1) Programming the terminal	
061	21 57	Binary output AIO 11 (X12.2) Programming the terminal	

Menu number	Index	Parameter	
062	21 128	Binary output AIO 11 (X12.3) Programming the terminal	
063	21 129	Binary output AIO 11 (X12.4) Programming the terminal	
064	21 130	Binary output AIO 11 (X12.5) Programming the terminal	
065	21 131	Binary output AIO 11 (X12.6) Programming the terminal	
070	10	Axis module rated current	
071	9	Option pcb type	
072	17	EPROM version (low)	
073	18	EPROM version (high)	
080	12	Fault t-0	
081	13	Fault t-1	
082	14	Fault t-2	
083	15	Fault t-3	
084	16	Fault t-4	
090	600	Process data configuration	
091	610	Fieldbus type	
092	611	Fieldbus baud rate	[kB]
093	612	Fieldbus address	
094	613	Setpoint PO1 (hex)	
095	616	Actual value PI1 (hex)	
096	614	Setpoint PO2 (hex)	
097	617	Actual value PI2 (hex)	
098	615	Setpoint PO3 (hex)	
099	618	Actual value PI3 (hex)	
100	30	Operating mode	
101	97	Factor for analogue setpoints	
102	125	Analogue setpoint offset	[mV]
103	165	Mode Analogue input 2	
110	79	Setpoint source	
111	80	Serial interface setpoint	[rpm]
120	31	Ramp 1 up CW	[s]
121	32	Ramp 1 down CW	[s]
122	90	Ramp 1 up CCW	[s]
123	91	Ramp 1 down CCW	[s]
130	33	Ramp 2 up CW	[s]
131	34	Ramp 2 down CW	[s]
132	92	Ramp 2 up CCW	[s]

Menu number	Index	Parameter	
133	93	Ramp 2 down CCW	[s]
140	35	Rapid stop ramp	[s]
150	36	Emergency stop ramp	[s]
200	37	Speed controller gain	
201	38	Speed controller time constant	[ms]
202	126	D component speed controller	
203	119	Feedforward threshold	
204	120	Feedforward gain	
205	121	Feedforward filter	
206	122	Speed setpoint filter	
207	123	Speed actual value filter	
208	132	7-segment display	
209	133	Controller test function	
210	43	Max. speed CW	[rpm]
211	44	Max. speed CCW	[rpm]
212	45	Maximum current	[% In]
220	94	Hold controller gain	
300	52	Programming terminal MA (X21.6)	
301	53	Programming terminal MA (X21.7)	
302	54	Programming terminal MA (X21.8)	
310	98	Programming terminal AIO 11 (X13.2)	
311	99	Programming terminal AIO 11 (X13.3)	
312	100	Programming terminal AIO 11 (X13.4)	
313	101	Programming terminal AIO 11 (X13.5)	
314	102	Programming terminal AIO 11 (X13.6)	
315	103	Programming terminal AIO 11 (X13.7)	
316	104	Programming terminal AIO 11 (X13.8)	
320	55	Programming terminal MA (X21.10)	
330	56	Programming terminal AIO 11 (X11.1)	
331	57	Programming terminal AIO 11 (X11.2)	
332	128	Programming terminal AIO 11 (X11.3)	
333	129	Programming terminal AIO 11 (X11.4)	
334	130	Programming terminal AIO 11 (X11.5)	
335	131	Programming terminal AIO 11 (X11.6)	
340	58	Programming analogue output 1 AIO 11 (X14.6)	
341	59	Weighting factor 1	
342	60	Programming analogue output 2 AIO 11 (X14.7)	
343	61	Weighting factor 2	
400	108	Reference speed	[rpm]

Menu number	Index	Parameter	
401	109	Hysteresis 1	[+/-rpm]
402	110	Delay	[s]
403	111	Signal = “1“ if:	
410	112	Reference current	[% In]
411	113	Hysteresis 2	[+/-% In]
412	114	Delay	[s]
413	115	Signal = ”1“ if:	
420	116	Delay setpoint/actual value comparison	[s]
421	117	Signal = “1“ if:	
430	118	I x t reference value	[% In]
500	69	Brake function	
501	70	Brake reaction time	[ms]
510	62	Speed monitoring	
511	63	Speed monitoring timeout	[ms]
600	68	Ready signal delay	[ms]
610	73	Factory setting	
620	83	Fault response	
630	74	Auto reset function	
631	75	Restart time to auto reset	[s]
632	76	Manual reset	
633	106	Response to MP reset	
634	124	Reset button MA	
640	71	Parameter lock	
650	72	Save to EEPROM	
660	39	MOVIDYN® response time	[ms]
780	601	Setpoint description PO1	
781	604	Actual value description PI1	
782	602	Setpoint description PO2	
783	605	Actual value description PI2	
784	603	Setpoint description PO3	
785	606	Actual value description PI3	
790	607	Enable fieldbus setpoints	
791	608	Fieldbus timeout	[s]
792	609	Timeout response	
793	620	CAN synchronization ID	

We are available, wherever you need us.
Worldwide.

SEW-EURODRIVE right around the globe is your competent partner in matters of power transmission with manufacturing and assembly plants in most major industrial countries.

SEW-EURODRIVE GmbH & Co · P.O.Box 30 23 · D-76642 Bruchsal/Germany
Tel. +49-7251-75-0 · Fax +49-7251-75-19 70 · Telex 7 822 391
http://www.SEW-EURODRIVE.com · sew@sew-eurodrive.com