



# SE-7xx: S7 interface data structure

Modbus TCP, Port 21303

and

Profinet IO device, fixed data mapping

Revision 1.0

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**All byte offsets in this documentation refer to the S7 Modbus connection.**

**With Profinet, an offset of 64 bytes must be added for the system data in each case!**

**Default port for Modbus TCP (S7 interface): 21303**

**All Modbus data are located in Holding Registers**

**Byte order (Modbus TCP and Profinet): Big-Endian**

## S7 status data

(→ read-only: Modbus starting at register 1000, Profinet starting at second input module)

Register overview (Byte offsets in relation to buffer start):

#define SE_MODBUS_S7_STATE_CONTROLZONE_BOOL	0	/* Byte 0..39 (40) */
#define SE_MODBUS_S7_STATE_SETVALUES_BOOL	40	/* Byte 40..69 (30) */
#define SE_MODBUS_S7_STATE_ACTUALVALUES_BOOL	70	/* Byte 70..75 (6) */
#define SE_MODBUS_S7_STATE_TOLERANCEVALUES_BOOL	76	/* Byte 76..85 (10) */
#define SE_MODBUS_S7_STATE_LIMITVALUES_BOOL	86	/* Byte 86..90 (5) */
#define SE_MODBUS_S7_STATE_PROGRAMMER_STATE_BOOL	91	/* Byte 91..96 (6) */
#define SE_MODBUS_S7_STATE_PROGRAMMER_PROCESS_STEPS_BOOL	97	/* Byte 97..103 (7) */
#define SE_MODBUS_S7_STATE_PROGRAMMER_DIGITAL_TRACKS_BOOL	104	/* Byte 104..111 (8) */
#define SE_MODBUS_S7_STATE_DO_VARIABLES_BOOL	112	/* Byte 112..136 (25) */
#define SE_MODBUS_S7_STATE_ALARM_STATE_BOOL	137	/* Byte 137..139 (3) */
#define SE_MODBUS_S7_STATE_ALARMS_USER_BOOL	140	/* Byte 140..164 (25) */
#define SE_MODBUS_S7_STATE_ALARMS_INTERNAL_BOOL	165	/* Byte 165..169 (5) */
#define SE_MODBUS_S7_STATE_DATALOGGER_BOOL	170	/* Byte 170..171 (2) */
#define SE_MODBUS_S7_STATE_CONTROLZONE_VALUES	180	/* Byte 180..259 (80) */
#define SE_MODBUS_S7_STATE_SETVALUES_VALUES	260	/* Byte 260..379 (120) */
#define SE_MODBUS_S7_STATE_ANALOGVARIABLES_VALUES	380	/* Byte 380..539 (160) */
#define SE_MODBUS_S7_STATE_ACTUALVALUES_VALUES	540	/* Byte 540..731 (192) */

## Control zones 1-20

Byte offset	Bit	Data type	Description
Common data			
Status signals, Control zone 1..20			
0	0	BOOL	[FO 49+2n] Output A (heating)
0	1	BOOL	[FO 50+2n] Output B (cooling)
0	2	BOOL	Reserved
0	3	BOOL	[FO 1233+n] Automatic/Manual
0	4	BOOL	[FO 985+8n] Minus tolerance
0	5	BOOL	[FO 986+8n] Plus tolerance
0	6	BOOL	[FO 987+8n] Lower limit
0	7	BOOL	[FO 988+8n] Upper limit
1	0	BOOL	[FO 1257+n] X-Tracking active
1	1	BOOL	[FO 1281+n] Y-Tracking active
1	2	BOOL	[FO 989+8n] Actual value break error
1	3	BOOL	[FO 990+8n] Actual value tolerance error
1	4	BOOL	Reserved
1	5	BOOL	Reserved
1	6	BOOL	Reserved
1	7	BOOL	Reserved
2..3	...	...	Control zone 2
...	...	...	...
38..39	...	...	Control zone 20
Control values, Control zone 1..20			
180..183	0..31	REAL32	Control zone 1, Y control value
184..187	0..31	REAL32	Control zone 2, Y control value
...	...	...	...
256..259	0..31	REAL32	Control zone 20

### Setvalues 1-30

Byte offset	Bit	Data type	Description
Common data			
Status signals, Setvalue 1..30			
40	0	BOOL	[FO 1321+n] Setvalue is in hand mode (manual setvalue active)
40	1	BOOL	[FO 1353+4n] Setvalue rising
40	2	BOOL	[FO 1354+4n] Setvalue constant
40	3	BOOL	[FO 1355+4n] Setvalue falling
40	4	BOOL	[FO 1356+4n] Setvalue in ramp section
40	5	BOOL	Reserved
40	6	BOOL	Reserved
40	7	BOOL	Reserved
41	...	...	Setvalue 2
...	...	...	...
69	...	...	Setvalue 30
Values, Setvalue 1..30			
260..263	0..31	REAL32	Setvalue 1, actual setvalue
264..267	0..31	REAL32	Setvalue 2, actual setvalue
...	...	...	...
376..379	0..31	REAL32	Setvalue 30, actual setvalue

### Actual values 1-48

Byte offset	Bit	Data type	Description
Common data			
Status signals, Actual value 1..48			
70	0	BOOL	[FO 1] Actual value 1 error
70	1	BOOL	[FO 2] Actual value 2 error
...	...	...	...
75	7	BOOL	[FO 48] Actual value 48 error
Values, Actual value 1..48			
540..543	0..31	REAL32	Actual value 1
544..547	0..31	REAL32	Actual value 2
...	...	...	...
728..731	0..31	REAL32	Actual value 48

### Tolerances 1-40

Byte offset	Bit	Data type	Description
Common data			
Status signals, Tolerance 1..40			
76	0	BOOL	[FO 90] Tolerance 1, underflow
76	1	BOOL	[FO 89] Tolerance 1, overflow
76	2	BOOL	[FO 92] Tolerance 2, underflow
...	...	...	...
85	7	BOOL	[FO 167] Tolerance 40, overflow

### Limits 1-40

Byte offset	Bit	Data type	Description
Common data			
Status signals, Limit 1..40			
86	0	BOOL	[FO 169] Limit 1, exceeded
86	1	BOOL	[FO 170] Limit 2, exceeded
...	...	...	...
90	7	BOOL	[FO 208] Limit 40, exceeded

### Analog variables 1-40

Byte offset	Bit	Data type	Description
Common data			
Values, Analog variable 1..40			
380..383	0..31	REAL32	Analog variable 1
384..387	0..31	REAL32	Analog variable 2
...	...	...	...
536..539	0..31	REAL32	Analog variable 40

## Programmer

Byte offset	Bit	Data type	Description
Common data			
91	0	BOOL	[FO 681] Reset
91	1	BOOL	[FO 682] Run
91	2	BOOL	[FO 683] Halt
91	3	BOOL	[FO 684] Program end
91	4	BOOL	[FO 685] Interlock
91	5	BOOL	[FO 686] Halt after power fail
91	6	BOOL	[FO 687] Halt at section end
91	7	BOOL	[FO 688] Actual value not found (Jump to actual value)
92	0	BOOL	[FO 761] New program section loaded
92	1	BOOL	[FO 762] Program selection successful
92	2	BOOL	[FO 763] Program not found
92	3	BOOL	[FO 768] Programmer active (RUN/HALT)
92	4	BOOL	[FO 765] Operating program has been changed
92	5	BOOL	[FO 766] Start at selected date/clock is active
92	6	BOOL	Reserved
92	7	BOOL	Reserved
93	0..7	BOOL	[FO 753..760] Current section number, binary coded
94	0..7	BOOL	[FO 1209..1216] Current program number, BCD coded, Digit 1 & 2
95	0..7	BOOL	Current program number, BCD coded, Digit 3 & 4
96	0..7	BOOL	Reserved
Process steps 1..50			
97	0	BOOL	[FO 769] Process step 1 active
97	1	BOOL	[FO 770] Process step 2 active
97	2	BOOL	[FO 771] Process step 3 active
...	...	...	...
103	1	BOOL	[FO 818] Process step 50 active
Digital tracks 1..64			
104	0	BOOL	[FO 689] Digital track 1
104	1	BOOL	[FO 690] Digital track 2
104	2	BOOL	[FO 691] Digital track 3
...	...	...	...
111	7	BOOL	[FO 752] Digital track 64

### Digital output variables 1-200 (FO 2000-2199)

Byte offset	Bit	Data type	Description
Common data			
Status signals, Digital output variable 1..200			
112	0	BOOL	[FO 2000] Digital output variable 1
112	1	BOOL	[FO 2001] Digital output variable 2
...	...	...	...
136	7	BOOL	[FO 2199] Digital output variable 200

### Alarms 1-200 & internal alarms

Byte offset	Bit	Data type	Description
Common data			
137	0	BOOL	[FO 415] Acoustic alarm acknowledged
137	1	BOOL	[FO 416] Optical alarm acknowledged
137	2	BOOL	[FO 409] Output of acoustic alarm (alarm horn)
137	3	BOOL	[FO 410] Output of optical alarm (alarm light)
137	4	BOOL	[FO 412] Common alarm signaling
137	5	BOOL	[FO 413] Feedback common alarm acknowledge (impulse)
137	6	BOOL	[FO 414] Feedback single alarm acknowledge (impulse)
137	7	BOOL	[FO 411] Feedback BCD/binary selected alarm applied
138	0	BOOL	[FO 417] Alarm priority 1 active
138	1	BOOL	[FO 418] Alarm priority 2 active
138	2	BOOL	[FO 419] Alarm priority 3 active
138	3	BOOL	[FO 420] Alarm priority 4 active
138	4	BOOL	[FO 421] Alarm priority 5 active
138	5	BOOL	[FO 422] Alarm priority 6 active
138	6	BOOL	[FO 423] Alarm priority 7 active
138	7	BOOL	[FO 424] Alarm priority 8 active
139	0..7	BOOL	Reserved
User alarms 1..200			
140	0	BOOL	[FO 209] User alarm 1
140	1	BOOL	[FO 210] User alarm 2
...	...	...	...
164	7	BOOL	[FO 408] User alarm 200
Internal alarms 201..240			
165	0	BOOL	[FO 1145] Internal alarm 201
165	1	BOOL	[FO 1146] Internal alarm 202
...	...	...	...
169	7	BOOL	[FO 1184] Internal alarm 240

## Data logger

Byte offset	Bit	Data type	Description
Common data			
170	0	BOOL	[FO 1311] Process start request active
170	1	BOOL	[FO 1305] Logger active
170	2	BOOL	Reserved
170	3	BOOL	Reserved
170	4	BOOL	[FO 1312] Log data archive full, warning
170	5	BOOL	[FO 1313] Log data archive full, error
170	6	BOOL	Reserved
170	7	BOOL	Reserved
171	0	BOOL	Reserved
171	1	BOOL	Reserved
171	2	BOOL	Reserved
171	3	BOOL	Reserved
171	4	BOOL	Reserved
171	5	BOOL	Reserved
171	6	BOOL	Reserved
171	7	BOOL	Reserved



## S7 control data

(→ Read/Write: Modbus starting at register 2000, Profinet starting at second output module)

Register overview (Byte offsets in relation to buffer start):

#define SE_MODBUS_S7_CONTROL_PROGRAMMER_BOOL	0	/* Byte 0..4 (5) */
#define SE_MODBUS_S7_CONTROL_CONTROLZONE_BOOL	5	/* Byte 5..44 (40) */
#define SE_MODBUS_S7_CONTROL_SETVALUES_BOOL	45	/* Byte 45..75 (31) */
#define SE_MODBUS_S7_CONTROL_TOLERANCEVALUES_BOOL	76	/* Byte 76..80 (5) */
#define SE_MODBUS_S7_CONTROL_DI_VARIABLES_BOOL	81	/* Byte 81..105 (25) */
#define SE_MODBUS_S7_CONTROL_ALARM_STATE_BOOL	106	/* Byte 106..107 (2) */
#define SE_MODBUS_S7_CONTROL_ALARMS_USER_BOOL	108	/* Byte 108..132 (25) */
#define SE_MODBUS_S7_CONTROL_DATALOGGER_BOOL	133	/* Byte 133..137 (5) */
#define SE_MODBUS_S7_CONTROL_ANALOGVARIABLES_VALUES	140	/* Byte 140..299 (160) */
#define SE_MODBUS_S7_CONTROL_ACTUALVALUES_VALUES	300	/* Byte 300..491 (192) */

## Programmer

Byte offset	Bit	Data type	Description
Common data			
0	0	BOOL	[FI 809] Start (impulse)
0	1	BOOL	[FI 810] Halt (impulse)
0	2	BOOL	[FI 811] Reset (impulse)
0	3	BOOL	[FI 812] Jump to next section (impulse)
0	4	BOOL	[FI 813] Interlock (static)
0	5	BOOL	[FI 814] Automatic halt at section end (static)
0	6	BOOL	[FI 815] Continue after automatic halt at section end (impulse)
0	7	BOOL	[FI 816] Jump to actual value of control zone (impulse)
1	0	BOOL	[FI 817] Jump to program end (impulse)
1	1	BOOL	[FI 824] Set operating program to "no program" (impulse)
1	2	BOOL	[FI 545] BCD program selection (impulse)
1	3	BOOL	Reserved
1	4	BOOL	Reserved
1	5	BOOL	Reserved
1	6	BOOL	Reserved
1	7	BOOL	Reserved
2	0	BOOL	[FI 225] Nr. for jump to actual value of control zone, Bit 0 (binary, 2 <sup>0</sup> )
2	1	BOOL	[FI 226] Nr. for jump to actual value of control zone, Bit 1 (binary, 2 <sup>1</sup> )
2	2	BOOL	[FI 227] Nr. for jump to actual value of control zone, Bit 2 (binary, 2 <sup>2</sup> )
2	3	BOOL	[FI 228] Nr. for jump to actual value of control zone, Bit 3 (binary, 2 <sup>3</sup> )
2	4	BOOL	[FI 229] Nr. for jump to actual value of control zone, Bit 4 (binary, 2 <sup>4</sup> )
2	5	BOOL	Reserved
2	6	BOOL	Reserved
2	7	BOOL	Reserved
3	0	BOOL	[FI 529] Program selection BCD; Digit 0, Bit 0 (significance 2 <sup>0</sup> )
3	1	BOOL	[FI 530] Program selection BCD; Digit 0, Bit 1 (significance 2 <sup>1</sup> )
3	2	BOOL	[FI 531] Program selection BCD; Digit 0, Bit 2 (significance 2 <sup>2</sup> )
3	3	BOOL	[FI 532] Program selection BCD; Digit 0, Bit 3 (significance 2 <sup>3</sup> )
3	4	BOOL	[FI 533] Program selection BCD; Digit 1, Bit 0 (significance 2 <sup>0</sup> )
3	5	BOOL	[FI 534] Program selection BCD; Digit 1, Bit 1 (significance 2 <sup>1</sup> )
3	6	BOOL	[FI 535] Program selection BCD; Digit 1, Bit 2 (significance 2 <sup>2</sup> )
3	7	BOOL	[FI 536] Program selection BCD; Digit 1, Bit 3 (significance 2 <sup>3</sup> )
4	0	BOOL	[FI 537] Program selection BCD; Digit 2, Bit 0 (significance 2 <sup>0</sup> )
4	1	BOOL	[FI 538] Program selection BCD; Digit 2, Bit 1 (significance 2 <sup>1</sup> )
4	2	BOOL	[FI 539] Program selection BCD; Digit 2, Bit 2 (significance 2 <sup>2</sup> )
4	3	BOOL	[FI 540] Program selection BCD; Digit 2, Bit 3 (significance 2 <sup>3</sup> )
4	4	BOOL	[FI 541] Program selection BCD; Digit 3, Bit 0 (significance 2 <sup>0</sup> )
4	5	BOOL	[FI 542] Program selection BCD; Digit 3, Bit 1 (significance 2 <sup>1</sup> )
4	6	BOOL	[FI 543] Program selection BCD; Digit 3, Bit 2 (significance 2 <sup>2</sup> )
4	7	BOOL	[FI 544] Program selection BCD; Digit 3, Bit 3 (significance 2 <sup>3</sup> )

## Control zones 1-20

Byte offset	Bit	Data type	Description
Common data			
Control signals, Control zone 1..20			
5	0	BOOL	[FI 25+n] Disable control zone (sets Y value to 0.0)
5	1	BOOL	[FI 49+n] Enable Y limit
5	2	BOOL	[FI 73+n] Enable substitute setvalue
5	3	BOOL	[FI 97+n] Enable substitute actual value
5	4	BOOL	Reserved (formerly Y hand enabling; removed)
5	5	BOOL	[FI 122+2n] Enable Y hand constant value
5	6	BOOL	[FI 1097+n] Enable X-Tracking
5	7	BOOL	[FI 1121+n] Enable Y-Tracking
6	0	BOOL	[FI 161+3n] Selection of PID parameter set, Bit 0 (binary, 2 <sup>0</sup> )
6	1	BOOL	[FI 162+3n] Selection of PID parameter set, Bit 1 (binary, 2 <sup>1</sup> )
6	2	BOOL	[FI 163+3n] Selection of PID parameter set, Bit 2 (binary, 2 <sup>2</sup> )
6	3	BOOL	Reserved
6	4	BOOL	Reserved
6	5	BOOL	Reserved
6	6	BOOL	Reserved
6	7	BOOL	Reserved
7..8	...	BOOL	Control zone 2
...	...	...	...
43..44	...	BOOL	Control zone 20

## Setvalues 1-30 (reserved)

Byte offset	Bit	Data type	Description
Common data			
45	0	BOOL	Reserved
45	1	BOOL	Reserved
45	2	BOOL	Reserved
45	3	BOOL	Reserved
45	4	BOOL	Reserved
45	5	BOOL	Reserved
45	6	BOOL	Reserved
45	7	BOOL	Reserved
45	0	BOOL	Reserved
Control signals, Setvalue 1..30			
46	0	BOOL	Reserved
46	1	BOOL	Reserved
46	2	BOOL	Reserved
46	3	BOOL	Reserved
46	4	BOOL	Reserved
46	5	BOOL	Reserved
46	6	BOOL	Reserved
46	7	BOOL	Reserved
47	...	BOOL	Setvalue 2
...	...	...	...
75	...	BOOL	Setvalue 30

## Tolerances

Byte offset	Bit	Data type	Description
Common data			
Control signals, Tolerance 1..40			
76	0	BOOL	[FI 265] Enable Tolerance 1
76	1	BOOL	[FI 266] Enable Tolerance 2
76	2	BOOL	[FI 267] Enable Tolerance 3
76	3	BOOL	[FI 268] Enable Tolerance 4
76	4	BOOL	[FI 269] Enable Tolerance 5
76	5	BOOL	[FI 270] Enable Tolerance 6
76	6	BOOL	[FI 271] Enable Tolerance 7
76	7	BOOL	[FI 272] Enable Tolerance 8
77	0..7	BOOL	[FI 273..280] Enable Tolerance 9 .. 16
...	...	...	...
80	0..7	BOOL	[FI 297..304] Enable Tolerance 33 .. 40

## Digital input variables 1-200 (FI 2000-2199)

Byte offset	Bit	Data type	Description
Common data			
Control signals, Digital input variable 1..200			
81	0	BOOL	[FI 2000] Digital input variable 1
81	1	BOOL	[FI 2001] Digital input variable 2
...	...	...	...
105	7	BOOL	[FI 2199] Digital input variable 200

## Alarms 1-200 & internal alarms

Byte offset	Bit	Data type	Description
Common data			
106	0	BOOL	[FI 505] Acknowledge acoustic alarm (alarm horn)
106	1	BOOL	[FI 506] Acknowledge optical alarm (alarm light)
106	2	BOOL	[FI 507] BCD/BIN alarm coming
106	3	BOOL	[FI 508] BCD/BIN alarm going
106	4	BOOL	[FI 509] Clear all alarms (alarm list and alarm history)
106	5	BOOL	[FI 528] Show alarm page (impulse)
106	6	BOOL	[FI 512] Lock alarm 209 (Common alarm for actual values) (static)
106	7	BOOL	Reserved
107	0	BOOL	Reserved
107	1	BOOL	Reserved
107	2	BOOL	Reserved
107	3	BOOL	Reserved
107	4	BOOL	Reserved
107	5	BOOL	Reserved
107	6	BOOL	Reserved
107	7	BOOL	Reserved
User alarm 1..200			
108	0	BOOL	[FI 305] User alarm 1
108	1	BOOL	[FI 306] User alarm 2
108	2	BOOL	[FI 307] User alarm 3
108	3	BOOL	[FI 308] User alarm 4
108	4	BOOL	[FI 309] User alarm 5
108	5	BOOL	[FI 310] User alarm 6
108	6	BOOL	[FI 311] User alarm 7
108	7	BOOL	[FI 312] User alarm 8
109	0..7	BOOL	[FI 313..320] User alarm 9 .. 16
...	...	...	...
132	0..7	BOOL	[FI 497..504] User alarm 193 .. 200

## Data logger

Byte offset	Bit	Data type	Description
Common data			
133	0	BOOL	[FI 967] Process start request → usually the process start request is triggered directly on the unit
133	1	BOOL	Reserved
133	2	BOOL	[FI 961] Start batch recording
133	3	BOOL	[FI 962] Stop batch recording
133	4	BOOL	[FI 963] Reset batch recording
133	5	BOOL	Reserved
133	6	BOOL	Reserved
133	7	BOOL	Reserved
134	0	BOOL	[FI 964] Clock selection: 0 = clock 1; 1 = clock 2
134	1	BOOL	[FI 965] Clock 1/2: enabling (static)
134	2	BOOL	[FI 966] Data set trigger
134	3	BOOL	Reserved
134	4	BOOL	Reserved
134	5	BOOL	Reserved
134	6	BOOL	Reserved
134	7	BOOL	Reserved
135	0..7	BOOL	[FI 977..984] Header data trigger 1 .. 8
136	0..7	BOOL	[FI 985..992] Header data trigger 9 .. 16
137	0..3	BOOL	[FI 993..997] Header data trigger 17 .. 20

## Analog variables 41..80

Byte offset	Bit	Data type	Description
Common data			
Values, analog variable 41..80			
140..143	0..31	REAL32	Analog variable 41
144..147	0..31	REAL32	Analog variable 42
...	...	...	...
296..299	0..31	REAL32	Analog variable 80

## Actual values 1-48

Byte offset	Bit	Data type	Description
Common data			
Values, Actual value 1..48			
300..303	0..31	REAL32	Actual value 1
304..307	0..31	REAL32	Actual value 2
...	...	...	...
488..491	0..31	REAL32	Actual value 48

## S7 system data (→ Read/Write: first 64 Byte input/output module, only Profinet)

These data are located in the first 64 byte module and are used to maintain a connection watchdog and such. Without this watchdog data, the communication will fail and a corresponding alarm will occur in the SE-7xx.

There are two watchdog bytes that can detect a connection failure.

One byte is given by the SE-7xx and must be returned correctly by the S7.

The other byte is specified by the S7 and must be returned correctly by the SE-7xx.

Here, you can simply take the byte that is sent by the SE-7xx as a template.

This way, a double check is possible.

In the template project, these data are automatically set and evaluated.

This system area is only used for Profinet with fixed data mapping.

For Profinet with variable data mapping, a manual watchdog bit can be used.

Byte offset	Bit	Data type	Description
Common control data			
0	0	UINT32	Start identifier: <b>0x11111111</b>
4	0	CHAR[8]	Frame name: " <b>SE-7xx</b> "
12	0	BYTE[2]	Target version of data layout – currently: 1
14	0	UINT08	S7 watchdog byte (controlled by S7): specified byte
15	0	UINT08	SE-7xx watchdog byte (controlled by SE-7xx): reply by S7
16	0	UINT08[44]	Reserved
60	0	UINT32	End identifier: <b>0x22222222</b>
Common status data			
0	0	UINT32	Start identifier: <b>0x33333333</b>
4	0	CHAR[8]	Frame name: " <b>SE-7xx</b> "
12	0	BYTE[2]	Target version of data layout; mirrored
14	0	UINT08	S7 watchdog byte (controlled by S7): reply by SE-7xx
15	0	UINT08	SE-7xx watchdog byte (controlled by SE-7xx): specified byte
16	0	UINT08[44]	Reserved
60	0	UINT32	End identifier: <b>0x44444444</b>