Version: V1.1	Release Date: 2023-07-18

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SLI04-IO	
Vendor ID	1180 (0x049c)
Vendor Name	Seli GmbH
Vendor Text	Innovative Automation
Vendor URL	www.seli.de
Device ID	400101 (0x061ae5)
DeviceFamily	Conductivity sensor
Features	
Block Parameter	yes
Data Storage	yes
Supported Access Locks	Parameter: no, Data Storage: yes, Local Parameterization: no, Local User Interface: no
Communication	
IO-Link Revision	V1.1
Transmission Rate	38400 bit/s (COM2)
Minimum Cycle Time	8.4 ms
SIO Mode Supported	no
M-Sequence Capability	PREOPERATE = TYPE_1_V with 8 octets on-request data OPERATE = TYPE_2_V with 2 octets on-request data ISDU supported
Device Variant	**SLI04-IO**
Description	Conductivity sensor
Product ID	SLI04-IO
Device Icon	
Device Symbol	
Connection Type	M12-4 connector
Connection Symbol	
- pin 1	brown; L+
- pin 2	white; Other
- pin 3	(light) blue; L-
- pin 4	black; C/Q

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ProcessData id=PD_ProcessData

ProcessDataIn "Process data In" id=DI_PROCESS_DATA_IN

bit length: 80
data type: 80-bit Record (subindex access not supported)

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	64	16-bit Integer						Concentration	calculated concentration
2	48	16-bit Integer						Temperature	measured temperature
3	16	32-bit Integer						Conductivity	measured conductivity
4	0	2-bit UInteger	0..3					Channel	selected parameter channel

Octet 0

bit offset	79	78	77	76	75	74	73	72
subindex	1							
element bit	15	14	13	12	11	10	9	8

Octet 1

bit offset	71	70	69	68	67	66	65	64
subindex	1							
element bit	7	6	5	4	3	2	1	0

Octet 2

bit offset	63	62	61	60	59	58	57	56
subindex	2							
element bit	15	14	13	12	11	10	9	8

Octet 3

bit offset	55	54	53	52	51	50	49	48
subindex	2							
element bit	7	6	5	4	3	2	1	0

Octet 4

bit offset	47	46	45	44	43	42	41	40
subindex	3							
element bit	31	30	29	28	27	26	25	24

Octet 5

bit offset	39	38	37	36	35	34	33	32
subindex	3							
element bit	23	22	21	20	19	18	17	16

Octet 6

bit offset	31	30	29	28	27	26	25	24
subindex	3							
element bit	15	14	13	12	11	10	9	8

Octet 7

bit offset	23	22	21	20	19	18	17	16
subindex	3							
element bit	7	6	5	4	3	2	1	0

Octet 8

bit offset	15	14	13	12	11	10	9	8
subindex	//////	//////	//////	//////	//////	//////	//////	//////

Octet 9

bit offset	7	6	5	4	3	2	1	0
subindex	//////	//////	//////	//////	//////	//////	4	
element bit							1	0

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Standard Variable "Direct Parameters - Page 1" index=0 id=V_DirectParameters_1

description: Comprises the required parameters defining the communication characteristics and identifiers for device validation.
data type: 128-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	120	8-bit UInteger			ro			Reserved	
2	112	8-bit UInteger			ro			Master Cycle Time	Communication: Current communication cycle duration used by the master. This value defines the process data cycle.
3	104	8-bit UInteger			ro			Min Cycle Time	Communication: Minimum communication cycle duration supported by the device. This value defines the lowest possible process data cycle.
4	96	8-bit UInteger			ro			M-Sequence Capability	Communication: Information on the structure and the supported features of the communication messages.
5	88	8-bit UInteger		17	ro			IO-Link Revision ID	Communication: Identifier for the currently used communication protocol revision.
6	80	8-bit UInteger			ro			Process Data Input Length	Communication: Information on width and features of the process input data (Process Data from Device to Master).
7	72	8-bit UInteger			ro			Process Data Output Length	Communication: Information on width of the process output data (Process Data from Master to Device).
8	64	8-bit UInteger			ro			Vendor ID 1	Identification: Highest octet of the Vendor ID. Combined with the parameter Vendor ID 2, this parameter defines the 16-bit value of the unique Vendor ID as assigned by the IO-Link Community.
9	56	8-bit UInteger			ro			Vendor ID 2	Identification: Lowest octet of the Vendor ID. Combined with the parameter Vendor ID 1, this parameter defines the 16-bit value of the unique Vendor ID as assigned by the IO-Link Community.

10	48	8-bit UInteger			ro			Device ID 1	Identification: Highest octet of the Device ID. Combined with the parameters Device ID 2 and 3, this parameter defines the 24-bit value of the vendor-specific Device ID.
11	40	8-bit UInteger			ro			Device ID 2	Identification: Middle octet of the Device ID. Combined with the parameters Device ID 1 and 3, this parameter defines the 24-bit value of the vendor-specific Device ID.
12	32	8-bit UInteger			ro			Device ID 3	Identification: Lowest octet of the Device ID. Combined with the parameters Device ID 1 and 2, this parameter defines the 24-bit value of the vendor-specific Device ID.
13	24	8-bit UInteger			ro			Reserved	
14	16	8-bit UInteger			ro			Reserved	
15	8	8-bit UInteger			ro			Reserved	
16	0	8-bit UInteger			wo	X		System Command	Application: Command interface for devices without ISDU support. Validity and execution of commands are not confirmed.

octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	1	2	3	4	5	6	7	8
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	9	10	11	12	13	14	15	16
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

Standard Variable "Direct Parameters - Page 2" index=1 id=V_DirectParameters_2

description: A set of parameters for devices without ISDU support.
data type: 128-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	120	8-bit UInteger						Device-specific Parameter 1	
2	112	8-bit UInteger						Device-specific Parameter 2	
3	104	8-bit UInteger						Device-specific Parameter 3	
4	96	8-bit UInteger						Device-specific Parameter 4	
5	88	8-bit UInteger						Device-specific Parameter 5	
6	80	8-bit UInteger						Device-specific Parameter 6	
7	72	8-bit UInteger						Device-specific Parameter 7	
8	64	8-bit UInteger						Device-specific Parameter 8	
9	56	8-bit UInteger						Device-specific Parameter 9	
10	48	8-bit UInteger						Device-specific Parameter 10	
11	40	8-bit UInteger						Device-specific Parameter 11	
12	32	8-bit UInteger						Device-specific Parameter 12	
13	24	8-bit UInteger						Device-specific Parameter 13	
14	16	8-bit UInteger						Device-specific Parameter 14	
15	8	8-bit UInteger						Device-specific Parameter 15	
16	0	8-bit UInteger						Device-specific Parameter 16	

octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	1	2	3	4	5	6	7	8
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	9	10	11	12	13	14	15	16
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

Standard Variable "System Command" index=2 id=V_SystemCommand

description: Command interface for applications. A positive acknowledge indicates the complete and correct finalization of the requested function.
data type: 8-bit UInteger
allowed values: 130 = Restore Factory Settings
access rights: wo
modifies other variables

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Standard Variable "Device Access Locks" index=12 id=V_DeviceAccessLocks

description: The access to the device parameters can be restricted by setting appropriate flags within this parameter.
data type: 16-bit Record (subindex access not supported)
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	Boolean	false = Unlocked, true = Locked					Parameter Write Access	This lock prevents the write access to all read/write parameters of the device except for the parameter 'Device Access Locks'.
2	1	Boolean	false = Unlocked, true = Locked	false				Data Storage	This lock prevents the write access to the device parameters via the data storage mechanism.
3	2	Boolean	false = Unlocked, true = Locked					Local Parameterization	This lock prevents the device settings from being changed via local operating elements on the device.
4	3	Boolean	false = Unlocked, true = Locked					Local User Interface	This lock prevents the access to the device settings and display via a local user interface. The user interface is disabled.

Octet 0

bit offset	15	14	13	12	11	10	9	8
subindex	/ / / / / /	/ / / / / /	/ / / / / /	/ / / / / /	/ / / / / /	/ / / / / /	/ / / / / /	/ / / / / /

Octet 1

bit offset	7	6	5	4	3	2	1	0
subindex	/ / / / / /	/ / / / / /	/ / / / / /	/ / / / / /	4	3	2	1

Standard Variable "Vendor Name" index=16 id=V_VendorName

description: The vendor name that is assigned to a Vendor ID.
data type: 64-octet String UTF-8
default value: "Seli GmbH"
access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31

bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Vendor Text" index=17 id=V_VendorText

description: Additional information about the vendor.
data type: 64-octet String UTF-8
default value: "Innovative Automation"
access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product Name" index=18 id=V_ProductName

description: Complete product name.
data type: 64-octet String UTF-8
access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product ID" index=19 id=V_ProductID

description: Vendor-specific product or type identification (e.g., item number or model number).
data type: 64-octet String UTF-8
access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product Text" index=20 id=V_ProductText

description: Additional product information for the device.
data type: 64-octet String UTF-8
access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Serial Number" index=21 id=V_SerialNumber

description: Unique, vendor-specific identifier of the individual device.
data type: 6-octet String UTF-8
access rights: ro

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	

Standard Variable "Firmware Revision" index=23 id=V_FirmwareRevision

description: Unique, vendor-specific identifier of the firmware revision of the individual device.
data type: 6-octet String UTF-8
default value: "V01.01"
access rights: ro

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	

Standard Variable "Application-specific Tag" index=24 id=V_ApplicationSpecificTag

description: Possibility to mark a device with user- or application-specific information.
data type: 16-octet String UTF-8
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Device Status" index=36 id=V_DeviceStatus

description: Indicator for the current device condition and diagnosis state.
data type: 8-bit UInteger
allowed values: 0 = Device is OK, 1 = Maintenance required, 2 = Out of specification, 3 = Functional check, 4 = Failure
access rights: ro
dynamic

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Standard Variable "PD Input" index=40 id=V_ProcessDataInput

description: Last valid process input data of the device.
data type: see ProcessDataIn!
access rights: ro
dynamic

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Variable "Backlight-Ontime" index=100 id=V_Backlight-Ontime

description: Backlight-Ontime Setting
data type: 8-bit UInteger
allowed values: 0 = Always on, 1 = 10s, 2 = 20s, 3 = 30s, 4 = 40s, 5 = 50s, 6 = 60s
default value: 0
access rights: rw

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Keylock-Set" index=110 id=V_Keylock-Set

description: Keylock-Set
data type: 8-bit UInteger
allowed values: 0 = Keylock off, 1 = 10min, 2 = 20min, 3 = 30min, 4 = 40min, 5 = 50min, 6 = 60min
default value: 0
access rights: rw

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Language" index=120 id=V_Language

description: Language
data type: 8-bit UInteger
allowed values: 0..4
default value: 0
access rights: rw

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Display pd selection" index=140 id=V_DisplayProcessdata

description: Display pd selection
data type: 32-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	24	8-bit UInteger	0 = Conductivity + Temp, 1 = Conductivity, 2 = Concentration + Temp, 3 = Concentration + Cond, 4 = Concentration	0				Display pd selection1	Display pd selection, parameter set 1
2	16	8-bit UInteger	0 = Conductivity + Temp, 1 = Conductivity, 2 = Concentration + Temp, 3 = Concentration + Cond, 4 = Concentration	0				Display pd selection2	Display pd selection, parameter set 2
3	8	8-bit UInteger	0 = Conductivity + Temp, 1 = Conductivity, 2 = Concentration + Temp, 3 = Concentration + Cond, 4 = Concentration	0				Display pd selection3	Display pd selection, parameter set 3
4	0	8-bit UInteger	0 = Conductivity + Temp, 1 = Conductivity, 2 = Concentration + Temp, 3 = Concentration + Cond, 4 = Concentration	0				Display pd selection4	Display pd selection, parameter set 4

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	2	3	4	
element bit	7 - 0	7 - 0	7 - 0	7 - 0	

Variable "Correction" index=200 id=V_Correction

description: Correction, parameter set
data type: Array[4] of 16-bit UInteger
allowed values: 800..1200
default value: 1000
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	1	1	2	2	3	3	4	4
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

Variable "Measure-range cond1" index=210 id=V_LoadCondRange1

description: Measure-range cond, parameter set 1
data type: 8-bit UInteger
allowed values: 1 = 0...0,5, 2 = 0...1,0, 3 = 0...2,0, 4 = 0...3,0, 5 = 0...5,0, 6 = 0...10,0, 7 = 0...20,0, 8 = 0...30,0, 9 = 0...50,0, 10 = 0...100,0, 11 = 0...200,0, 12 = 0...300,0, 13 = 0...500,0, 14 = 0...999,9
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Measure-range cond2" index=211 id=V_LoadCondRange2

description: Measure-range cond, parameter set 2
data type: 8-bit UInteger
allowed values: 1 = 0...0,5, 2 = 0...1,0, 3 = 0...2,0, 4 = 0...3,0, 5 = 0...5,0, 6 = 0...10,0, 7 = 0...20,0, 8 = 0...30,0, 9 = 0...50,0, 10 = 0...100,0, 11 = 0...200,0, 12 = 0...300,0, 13 = 0...500,0, 14 = 0...999,9
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Measure-range cond3" index=212 id=V_LoadCondRange3

description: Measure-range cond, parameter set 3
data type: 8-bit UInteger
allowed values: 1 = 0...0,5, 2 = 0...1,0, 3 = 0...2,0, 4 = 0...3,0, 5 = 0...5,0, 6 = 0...10,0, 7 = 0...20,0, 8 = 0...30,0, 9 = 0...50,0, 10 = 0...100,0, 11 = 0...200,0, 12 = 0...300,0, 13 = 0...500,0, 14 = 0...999,9
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Measure-range cond4" index=213 id=V_LoadCondRange4

description: Measure-range cond, parameter set 4
data type: 8-bit UInteger
allowed values: 1 = 0...0,5, 2 = 0...1,0, 3 = 0...2,0, 4 = 0...3,0, 5 = 0...5,0, 6 = 0...10,0, 7 = 0...20,0, 8 = 0...30,0, 9 = 0...50,0, 10 = 0...100,0, 11 = 0...200,0, 12 = 0...300,0, 13 = 0...500,0, 14 = 0...999,9
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Measure-range temp1" index=220 id=V_LoadTempRange1

description: Measure-range temp, parameter set 1
data type: 8-bit UInteger
allowed values: 1 = 0...150, 2 = -20...130, 3 = 0...100, 4 = -20...80, 5 = 0...50, 6 = -10...40, 7 = -20...150
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Measure-range temp2" index=221 id=V_LoadTempRange2

description: Measure-range temp, parameter set 2
data type: 8-bit UInteger
allowed values: 1 = 0...150, 2 = -20...130, 3 = 0...100, 4 = -20...80, 5 = 0...50, 6 = -10...40, 7 = -20...150
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Measure-range temp3" index=222 id=V_LoadTempRange3

description: Measure-range temp, parameter set 3
data type: 8-bit UInteger
allowed values: 1 = 0...150, 2 = -20...130, 3 = 0...100, 4 = -20...80, 5 = 0...50, 6 = -10...40, 7 = -20...150
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Measure-range temp4" index=223 id=V_LoadTempRange4

description: Measure-range temp, parameter set 4
data type: 8-bit UInteger
allowed values: 1 = 0...150, 2 = -20...130, 3 = 0...100, 4 = -20...80, 5 = 0...50, 6 = -10...40, 7 = -20...150
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "4...20mA user setting1" index=240 id=V_CurrentParameterChannel1

description: 4...20mA user setting, parameter set 1
data type: 96-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	64	32-bit UInteger	0..500000	0				cond start point	4...20mA cond start point
2	32	32-bit UInteger	500..1000000	200000				cond end point	4...20mA cond end point
3	16	16-bit Integer	-200..1150	0				temp start point	4...20mA temp start point
4	0	16-bit Integer	100..1500	1500				temp end point	4...20mA temp end point

octet	0	1	2	3	4	5	6	7
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	3	3	4	4	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "4...20mA user setting2" index=241 id=V_CurrentParameterChannel2

description: 4...20mA user setting, parameter set 2
data type: 96-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	64	32-bit UInteger	0..500000	0				cond start point	4...20mA cond start point
2	32	32-bit UInteger	500..1000000	20000				cond end point	4...20mA cond end point
3	16	16-bit Integer	-200..1150	0				temp start point	4...20mA temp start point
4	0	16-bit Integer	100..1500	1500				temp end point	4...20mA temp end point

octet	0	1	2	3	4	5	6	7
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	3	3	4	4	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "4...20mA user setting3" index=242 id=V_CurrentParameterChannel3

description: 4...20mA user setting, parameter set 3
data type: 96-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	64	32-bit UInteger	0..500000	0				cond start point	4...20mA cond start point
2	32	32-bit UInteger	500..1000000	2000				cond end point	4...20mA cond end point
3	16	16-bit Integer	-200..1150	0				temp start point	4...20mA temp start point
4	0	16-bit Integer	100..1500	1500				temp end point	4...20mA temp end point

octet	0	1	2	3	4	5	6	7
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	3	3	4	4	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "4...20mA user setting4" index=243 id=V_CurrentParameterChannel4

description: 4...20mA user setting, parameter set 4
data type: 96-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	64	32-bit UInteger	0..500000	0				cond start point	4...20mA cond start point
2	32	32-bit UInteger	500..1000000	500				cond end point	4...20mA cond end point
3	16	16-bit Integer	-200..1150	0				temp start point	4...20mA temp start point
4	0	16-bit Integer	100..1500	1500				temp end point	4...20mA temp end point

octet	0	1	2	3	4	5	6	7
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	3	3	4	4	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "Measure settings1" index=260 id=V_ParameterSet1

description: Measure settings, parameter set 1
data type: 48-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	16-bit Integer	0..500	200				Temp-comp	Setting of the TK-value
		16-bit							Reference temperature

2	16	Integer	150..350	250				Temp-ref	setting
3	0	16-bit Integer	0..20	0				Damping	Damping

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	2	2	3	3	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "Measure settings2" index=261 id=V_ParameterSet2

description: Measure settings, parameter set 2
data type: 48-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	16-bit Integer	0..500	200				Temp-comp	Setting of the TK-value
2	16	16-bit Integer	150..350	250				Temp-ref	Reference temperature setting
3	0	16-bit Integer	0..20	0				Damping	Damping

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	2	2	3	3	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "Measure settings3" index=262 id=V_ParameterSet3

description: Measure settings, parameter set 3
data type: 48-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	16-bit Integer	0..500	200				Temp-comp	Setting of the TK-value
2	16	16-bit Integer	150..350	250				Temp-ref	Reference temperature setting
3	0	16-bit Integer	0..20	0				Damping	Damping

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	2	2	3	3	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "Measure settings4" index=263 id=V_ParameterSet4

description: Measure settings, parameter set 4
data type: 48-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	16-bit Integer	0..500	200				Temp-comp	Setting of the TK-value
2	16	16-bit Integer	150..350	250				Temp-ref	Reference temperature setting
3	0	16-bit Integer	0..20	0				Damping	Damping

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	2	2	3	3	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "Conc table selection" index=420 id=V_ConcTableSelection

description: Conc table selection, parameter set
data type: Array[4] of 8-bit UInteger
allowed values: 0 = No Selection, 1 = Table Set 1, 2 = Table Set 2, 3 = Table Set 3, 4 = Table Set 4
default value: 0
access rights: rw

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	2	3	4	
element bit	7 - 0	7 - 0	7 - 0	7 - 0	

Variable "Table conc values1, cond" index=440 id=V_ConcTable1Cond

description: Table conc values cond, table set 1
data type: Array[30] of 32-bit UInteger
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	959 - 952	951 - 944	943 - 936	935 - 928	927 - 920	919 - 912	911 - 904	903 - 896
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	895 - 888	887 - 880	879 - 872	871 - 864	863 - 856	855 - 848	847 - 840	839 - 832
subindex	3	3	3	3	4	4	4	4
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	16	17	18	19	20	21	22	23
bit offset	831 - 824	823 - 816	815 - 808	807 - 800	799 - 792	791 - 784	783 - 776	775 - 768
subindex	5	5	5	5	6	6	6	6
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	24	25	26	27	28	29	30	31
bit offset	767 - 760	759 - 752	751 - 744	743 - 736	735 - 728	727 - 720	719 - 712	711 - 704
subindex	7	7	7	7	8	8	8	8
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	32	33	34	35	36	37	38	39
bit offset	703 - 696	695 - 688	687 - 680	679 - 672	671 - 664	663 - 656	655 - 648	647 - 640
subindex	9	9	9	9	10	10	10	10
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	40	41	42	43	44	45	46	47
bit offset	639 - 632	631 - 624	623 - 616	615 - 608	607 - 600	599 - 592	591 - 584	583 - 576
subindex	11	11	11	11	12	12	12	12
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	48	49	50	51	52	53	54	55
bit offset	575 - 568	567 - 560	559 - 552	551 - 544	543 - 536	535 - 528	527 - 520	519 - 512
subindex	13	13	13	13	14	14	14	14
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	56	57	58	59	60	61	62	63
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448
subindex	15	15	15	15	16	16	16	16
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	64	65	66	67	68	69	70	71
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384
subindex	17	17	17	17	18	18	18	18
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	72	73	74	75	76	77	78	79
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320
subindex	19	19	19	19	20	20	20	20
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	80	81	82	83	84	85	86	87
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256
subindex	21	21	21	21	22	22	22	22
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	88	89	90	91	92	93	94	95
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192
subindex	23	23	23	23	24	24	24	24
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	96	97	98	99	100	101	102	103
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128
subindex	25	25	25	25	26	26	26	26
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	104	105	106	107	108	109	110	111
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	27	27	27	27	28	28	28	28
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	112	113	114	115	116	117	118	119
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	29	29	29	29	30	30	30	30
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc values1" index=441 id=V_ConcTable1Values

description: Table conc values, table set 1
data type: Array[30] of 16-bit UInteger
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	479 - 472	471 - 464	463 - 456	455 - 448	447 - 440	439 - 432	431 - 424	423 - 416
subindex	1	1	2	2	3	3	4	4
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	415 - 408	407 - 400	399 - 392	391 - 384	383 - 376	375 - 368	367 - 360	359 - 352
subindex	5	5	6	6	7	7	8	8
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	16	17	18	19	20	21	22	23
bit offset	351 - 344	343 - 336	335 - 328	327 - 320	319 - 312	311 - 304	303 - 296	295 - 288
subindex	9	9	10	10	11	11	12	12
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	24	25	26	27	28	29	30	31
bit offset	287 - 280	279 - 272	271 - 264	263 - 256	255 - 248	247 - 240	239 - 232	231 - 224
subindex	13	13	14	14	15	15	16	16
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	32	33	34	35	36	37	38	39
bit offset	223 - 216	215 - 208	207 - 200	199 - 192	191 - 184	183 - 176	175 - 168	167 - 160
subindex	17	17	18	18	19	19	20	20
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	40	41	42	43	44	45	46	47
bit offset	159 - 152	151 - 144	143 - 136	135 - 128	127 - 120	119 - 112	111 - 104	103 - 96
subindex	21	21	22	22	23	23	24	24
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	48	49	50	51	52	53	54	55
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	25	25	26	26	27	27	28	28
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	56	57	58	59	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	29	29	30	30	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	

Variable "Table conc name" index=442 id=V_ConcTableName1

description: Table conc name
data type: 8-octet String UTF-8
default value: ""
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc unit" index=443 id=V_ConcTableUnit1

description: Table conc unit
data type: 5-octet String UTF-8
default value: ""
access rights: rw

octet	0	1	2	3	4	
bit offset	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "Table conc count1" index=445 id=V_ConcTable1Count

description: Table conc, used values count, table set 1
data type: 8-bit UInteger
allowed values: 0..30
access rights: rw

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Table conc decimal places" index=446 id=V_ConcTableDecimalPlace

description: Table conc decimal places
data type: Array[4] of 8-bit UInteger
allowed values: 0 = 0000, 1 = 000,0, 2 = 00,00, 3 = 0,000
default value: 0
access rights: rw

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	2	3	4	
element bit	7 - 0	7 - 0	7 - 0	7 - 0	

Variable "Table conc values2, cond" index=450 id=V_ConcTable2Cond

description: Table conc values cond, table set 2
data type: Array[30] of 32-bit UInteger
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	959 - 952	951 - 944	943 - 936	935 - 928	927 - 920	919 - 912	911 - 904	903 - 896
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	895 - 888	887 - 880	879 - 872	871 - 864	863 - 856	855 - 848	847 - 840	839 - 832
subindex	3	3	3	3	4	4	4	4
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	16	17	18	19	20	21	22	23
bit offset	831 - 824	823 - 816	815 - 808	807 - 800	799 - 792	791 - 784	783 - 776	775 - 768
subindex	5	5	5	5	6	6	6	6
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	24	25	26	27	28	29	30	31
bit offset	767 - 760	759 - 752	751 - 744	743 - 736	735 - 728	727 - 720	719 - 712	711 - 704
subindex	7	7	7	7	8	8	8	8
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	32	33	34	35	36	37	38	39
bit offset	703 - 696	695 - 688	687 - 680	679 - 672	671 - 664	663 - 656	655 - 648	647 - 640
subindex	9	9	9	9	10	10	10	10
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	40	41	42	43	44	45	46	47
bit offset	639 - 632	631 - 624	623 - 616	615 - 608	607 - 600	599 - 592	591 - 584	583 - 576
subindex	11	11	11	11	12	12	12	12
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	48	49	50	51	52	53	54	55
bit offset	575 - 568	567 - 560	559 - 552	551 - 544	543 - 536	535 - 528	527 - 520	519 - 512
subindex	13	13	13	13	14	14	14	14
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	56	57	58	59	60	61	62	63
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448
subindex	15	15	15	15	16	16	16	16
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	64	65	66	67	68	69	70	71
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384
subindex	17	17	17	17	18	18	18	18
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	72	73	74	75	76	77	78	79
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320
subindex	19	19	19	19	20	20	20	20
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	80	81	82	83	84	85	86	87
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256
subindex	21	21	21	21	22	22	22	22
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	88	89	90	91	92	93	94	95
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192
subindex	23	23	23	23	24	24	24	24
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	96	97	98	99	100	101	102	103
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128
subindex	25	25	25	25	26	26	26	26
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	104	105	106	107	108	109	110	111
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	27	27	27	27	28	28	28	28
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	112	113	114	115	116	117	118	119
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	29	29	29	29	30	30	30	30
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc values2" index=451 id=V_ConcTable2Values

description: Table conc values, table set 2
data type: Array[30] of 16-bit UInteger
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	479 - 472	471 - 464	463 - 456	455 - 448	447 - 440	439 - 432	431 - 424	423 - 416
subindex	1	1	2	2	3	3	4	4
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	415 - 408	407 - 400	399 - 392	391 - 384	383 - 376	375 - 368	367 - 360	359 - 352
subindex	5	5	6	6	7	7	8	8
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	16	17	18	19	20	21	22	23
bit offset	351 - 344	343 - 336	335 - 328	327 - 320	319 - 312	311 - 304	303 - 296	295 - 288
subindex	9	9	10	10	11	11	12	12
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	24	25	26	27	28	29	30	31
bit offset	287 - 280	279 - 272	271 - 264	263 - 256	255 - 248	247 - 240	239 - 232	231 - 224
subindex	13	13	14	14	15	15	16	16
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	32	33	34	35	36	37	38	39
bit offset	223 - 216	215 - 208	207 - 200	199 - 192	191 - 184	183 - 176	175 - 168	167 - 160
subindex	17	17	18	18	19	19	20	20
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	40	41	42	43	44	45	46	47
bit offset	159 - 152	151 - 144	143 - 136	135 - 128	127 - 120	119 - 112	111 - 104	103 - 96
subindex	21	21	22	22	23	23	24	24
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	48	49	50	51	52	53	54	55
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	25	25	26	26	27	27	28	28
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	56	57	58	59
bit offset	31 - 24	23 - 16	15 - 8	7 - 0
subindex	29	29	30	30
element bit	15 - 8	7 - 0	15 - 8	7 - 0

Variable "Table conc name" index=452 id=V_ConcTableName2

description: Table conc name
data type: 8-octet String UTF-8
default value: ""
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc unit" index=453 id=V_ConcTableUnit2

description: Table conc unit
data type: 5-octet String UTF-8
default value: ""
access rights: rw

octet	0	1	2	3	4
bit offset	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc count2" index=455 id=V_ConcTable2Count

description: Table conc, used values count, table set 2
data type: 8-bit UInteger
allowed values: 0..30
access rights: rw

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Table conc values3, cond" index=460 id=V_ConcTable3Cond

description: Table conc values cond, table set 3
data type: Array[30] of 32-bit UInteger
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	959 - 952	951 - 944	943 - 936	935 - 928	927 - 920	919 - 912	911 - 904	903 - 896
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	895 - 888	887 - 880	879 - 872	871 - 864	863 - 856	855 - 848	847 - 840	839 - 832
subindex	3	3	3	3	4	4	4	4
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	16	17	18	19	20	21	22	23
bit offset	831 - 824	823 - 816	815 - 808	807 - 800	799 - 792	791 - 784	783 - 776	775 - 768
subindex	5	5	5	5	6	6	6	6
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	24	25	26	27	28	29	30	31
bit offset	767 - 760	759 - 752	751 - 744	743 - 736	735 - 728	727 - 720	719 - 712	711 - 704
subindex	7	7	7	7	8	8	8	8
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	32	33	34	35	36	37	38	39
bit offset	703 - 696	695 - 688	687 - 680	679 - 672	671 - 664	663 - 656	655 - 648	647 - 640
subindex	9	9	9	9	10	10	10	10
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	40	41	42	43	44	45	46	47
bit offset	639 - 632	631 - 624	623 - 616	615 - 608	607 - 600	599 - 592	591 - 584	583 - 576
subindex	11	11	11	11	12	12	12	12
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	48	49	50	51	52	53	54	55
bit offset	575 - 568	567 - 560	559 - 552	551 - 544	543 - 536	535 - 528	527 - 520	519 - 512
subindex	13	13	13	13	14	14	14	14
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	56	57	58	59	60	61	62	63
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448
subindex	15	15	15	15	16	16	16	16
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	64	65	66	67	68	69	70	71
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384
subindex	17	17	17	17	18	18	18	18
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	72	73	74	75	76	77	78	79
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320
subindex	19	19	19	19	20	20	20	20
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	80	81	82	83	84	85	86	87
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256
subindex	21	21	21	21	22	22	22	22
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	88	89	90	91	92	93	94	95
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192
subindex	23	23	23	23	24	24	24	24
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	96	97	98	99	100	101	102	103
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128
subindex	25	25	25	25	26	26	26	26
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	104	105	106	107	108	109	110	111
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	27	27	27	27	28	28	28	28
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	112	113	114	115	116	117	118	119
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	29	29	29	29	30	30	30	30
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc values3" index=461 id=V_ConcTable3Values

description: Table conc values, table set 3
data type: Array[30] of 16-bit UInteger
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	479 - 472	471 - 464	463 - 456	455 - 448	447 - 440	439 - 432	431 - 424	423 - 416
subindex	1	1	2	2	3	3	4	4
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	415 - 408	407 - 400	399 - 392	391 - 384	383 - 376	375 - 368	367 - 360	359 - 352
subindex	5	5	6	6	7	7	8	8
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	16	17	18	19	20	21	22	23
bit offset	351 - 344	343 - 336	335 - 328	327 - 320	319 - 312	311 - 304	303 - 296	295 - 288
subindex	9	9	10	10	11	11	12	12
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	24	25	26	27	28	29	30	31
bit offset	287 - 280	279 - 272	271 - 264	263 - 256	255 - 248	247 - 240	239 - 232	231 - 224
subindex	13	13	14	14	15	15	16	16
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	32	33	34	35	36	37	38	39
bit offset	223 - 216	215 - 208	207 - 200	199 - 192	191 - 184	183 - 176	175 - 168	167 - 160
subindex	17	17	18	18	19	19	20	20
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	40	41	42	43	44	45	46	47
bit offset	159 - 152	151 - 144	143 - 136	135 - 128	127 - 120	119 - 112	111 - 104	103 - 96
subindex	21	21	22	22	23	23	24	24
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	48	49	50	51	52	53	54	55
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	25	25	26	26	27	27	28	28
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	56	57	58	59				
bit offset	31 - 24	23 - 16	15 - 8	7 - 0				
subindex	29	29	30	30				
element bit	15 - 8	7 - 0	15 - 8	7 - 0				

Variable "Table conc name" index=462 id=V_ConcTableName3

description: Table conc name
data type: 8-octet String UTF-8
default value: ""
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc unit" index=463 id=V_ConcTableUnit3

description: Table conc unit
data type: 5-octet String UTF-8
default value: ""
access rights: rw

octet	0	1	2	3	4	
bit offset	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "Table conc count3" index=465 id=V_ConcTable3Count

description: Table conc, used values count, table set 3
data type: 8-bit UInteger
allowed values: 0..30
access rights: rw

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Table conc values4, cond" index=480 id=V_ConcTable4Cond

description: Table conc values cond, table set 4
data type: Array[30] of 32-bit UInteger
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	959 - 952	951 - 944	943 - 936	935 - 928	927 - 920	919 - 912	911 - 904	903 - 896
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	895 - 888	887 - 880	879 - 872	871 - 864	863 - 856	855 - 848	847 - 840	839 - 832
subindex	3	3	3	3	4	4	4	4
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	16	17	18	19	20	21	22	23
bit offset	831 - 824	823 - 816	815 - 808	807 - 800	799 - 792	791 - 784	783 - 776	775 - 768
subindex	5	5	5	5	6	6	6	6
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	24	25	26	27	28	29	30	31
bit offset	767 - 760	759 - 752	751 - 744	743 - 736	735 - 728	727 - 720	719 - 712	711 - 704
subindex	7	7	7	7	8	8	8	8
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	32	33	34	35	36	37	38	39
bit offset	703 - 696	695 - 688	687 - 680	679 - 672	671 - 664	663 - 656	655 - 648	647 - 640
subindex	9	9	9	9	10	10	10	10
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	40	41	42	43	44	45	46	47
bit offset	639 - 632	631 - 624	623 - 616	615 - 608	607 - 600	599 - 592	591 - 584	583 - 576
subindex	11	11	11	11	12	12	12	12
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	48	49	50	51	52	53	54	55

bit offset	575 - 568	567 - 560	559 - 552	551 - 544	543 - 536	535 - 528	527 - 520	519 - 512
subindex	13	13	13	13	14	14	14	14
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	56	57	58	59	60	61	62	63
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448
subindex	15	15	15	15	16	16	16	16
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	64	65	66	67	68	69	70	71
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384
subindex	17	17	17	17	18	18	18	18
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	72	73	74	75	76	77	78	79
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320
subindex	19	19	19	19	20	20	20	20
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	80	81	82	83	84	85	86	87
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256
subindex	21	21	21	21	22	22	22	22
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	88	89	90	91	92	93	94	95
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192
subindex	23	23	23	23	24	24	24	24
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	96	97	98	99	100	101	102	103
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128
subindex	25	25	25	25	26	26	26	26
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	104	105	106	107	108	109	110	111
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	27	27	27	27	28	28	28	28
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	112	113	114	115	116	117	118	119
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	29	29	29	29	30	30	30	30
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc values4" index=481 id=V_ConcTable4Values

description: Table conc values, table set 4
data type: Array[30] of 16-bit UInteger
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	479 - 472	471 - 464	463 - 456	455 - 448	447 - 440	439 - 432	431 - 424	423 - 416
subindex	1	1	2	2	3	3	4	4
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	415 - 408	407 - 400	399 - 392	391 - 384	383 - 376	375 - 368	367 - 360	359 - 352
subindex	5	5	6	6	7	7	8	8
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	16	17	18	19	20	21	22	23
bit offset	351 - 344	343 - 336	335 - 328	327 - 320	319 - 312	311 - 304	303 - 296	295 - 288
subindex	9	9	10	10	11	11	12	12
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	24	25	26	27	28	29	30	31

bit offset	287 - 280	279 - 272	271 - 264	263 - 256	255 - 248	247 - 240	239 - 232	231 - 224
subindex	13	13	14	14	15	15	16	16
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	32	33	34	35	36	37	38	39
bit offset	223 - 216	215 - 208	207 - 200	199 - 192	191 - 184	183 - 176	175 - 168	167 - 160
subindex	17	17	18	18	19	19	20	20
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	40	41	42	43	44	45	46	47
bit offset	159 - 152	151 - 144	143 - 136	135 - 128	127 - 120	119 - 112	111 - 104	103 - 96
subindex	21	21	22	22	23	23	24	24
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	48	49	50	51	52	53	54	55
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	25	25	26	26	27	27	28	28
element bit	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0	15 - 8	7 - 0

octet	56	57	58	59
bit offset	31 - 24	23 - 16	15 - 8	7 - 0
subindex	29	29	30	30
element bit	15 - 8	7 - 0	15 - 8	7 - 0

Variable "Table conc name" index=482 id=V_ConcTableName4

description: Table conc name
data type: 8-octet String UTF-8
default value: ""
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc unit" index=483 id=V_ConcTableUnit4

description: Table conc unit
data type: 5-octet String UTF-8
default value: ""
access rights: rw

octet	0	1	2	3	4
bit offset	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Table conc count4" index=485 id=V_ConcTable4Count

description: Table conc, used values count, table set 4
data type: 8-bit UInteger
allowed values: 0..30
access rights: rw

octet	0
bit offset	7 - 0
element bit	7 - 0

Variable "Electronic temperature" index=520 id=V_ElectronicTemp

description: Electronic temperature
data type: 16-bit Integer
allowed values: -3000..12000
access rights: ro

octet	0	1
bit offset	15 - 8	7 - 0
element bit	15 - 8	7 - 0

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Code	Type	Name	Description
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30480 (0x7710)	Error	Short circuit	Check installation
35856 (0x8c10)	Warning	Process variable range overrun	Process data uncertain
35888 (0x8c30)	Warning	Process variable range underrun	Process data uncertain

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Note: This page shows the content of an IODD file transformed into HTML format. In the case of disparity between this and the XML view, the content of the XML file takes precedence.
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