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**ProcessData id=PD\_Countdown (condition V\_Betriebsart = 3)**

## ProcessDataIn "Hardware In" id=PI\_Countdown

bit length: 56  
data type: 56-bit Record

Octet 0Octet 1Octet 2[illegible]

**Octet 3**

bit offset	31	30	29	28	27	26	25	24
subindex	//////	//////	//////	//////	//////	//////	//////	3

**Octet 4**

bit offset	23	22	21	20	19	18	17	16
subindex	//////	//////	//////	//////	//////	//////	//////	2

**Octet 5**

bit offset	15	14	13	12	11	10	9	8
subindex	1							
element bit	15	14	13	12	11	10	9	8

**Octet 6**

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

**ProcessDataOut "Countdown time IO-Link" id=PO\_Countdown**

bit length: 40

data type: 40-bit UInteger

allowed values: 1..30000 = Seconds

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
element bit	null ext.	null ext.	null ext.	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

**ProcessData id=PD\_Fuellstand (condition V\_Betriebsart = 2)****ProcessDataIn "Hardware In" id=PI\_Fuellstand**

bit length: 56

data type: 56-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	16-bit UInteger	0..4095					Analog In	
2	16	Boolean	false = Off, true = On					Digital In 1	
3	24	Boolean	false = Off, true = On					Digital In 2	
4	32	Boolean	false = Off, true = On					Digital in 3	
5	40	Boolean	false = Off, true = On					Digital In 4	
6	48	Boolean	false = Off, true = On					Digital In 5	

**Octet 0**

bit offset	55	54	53	52	51	50	49	48
subindex	//////	//////	//////	//////	//////	//////	//////	6

**Octet 1**

bit offset	47	46	45	44	43	42	41	40
subindex	//////	//////	//////	//////	//////	//////	//////	5

**Octet 2**

bit offset	39	38	37	36	35	34	33	32
subindex	//////	//////	//////	//////	//////	//////	//////	4

**Octet 3**

bit offset	31	30	29	28	27	26	25	24
subindex	//////	//////	//////	//////	//////	//////	//////	3

**Octet 4**

bit offset	23	22	21	20	19	18	17	16
subindex	//////	//////	//////	//////	//////	//////	//////	2

**Octet 5**

bit offset	15	14	13	12	11	10	9	8
subindex	1							
element bit	15	14	13	12	11	10	9	8

**Octet 6**

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

**ProcessDataOut "Level mode" id=PO\_Fuellstand**

bit length: 40

data type: 40-bit UInteger

allowed values: 0..100 = Percent

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
element bit	null ext.	null ext.	null ext.	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

### ProcessData id=PD\_Segment (condition V\_Betriebsart = 1)

### ProcessDataIn "Hardware In" id=PI\_Segment

bit length: 56

data type: 56-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	16-bit UInteger	0..4095					Analog In	
2	16	Boolean	false = Off, true = On					Digital In 1	
3	24	Boolean	false = Off, true = On					Digital In 2	
4	32	Boolean	false = Off, true = On					Digital in 3	
5	40	Boolean	false = Off, true = On					Digital In 4	
6	48	Boolean	false = Off, true = On					Digital In 5	

#### Octet 0

bit offset	55	54	53	52	51	50	49	48
subindex	/////	/////	/////	/////	/////	/////	/////	6

#### Octet 1

bit offset	47	46	45	44	43	42	41	40
subindex	/////	/////	/////	/////	/////	/////	/////	5

#### Octet 2

bit offset	39	38	37	36	35	34	33	32
subindex	/////	/////	/////	/////	/////	/////	/////	4

#### Octet 3

bit offset	31	30	29	28	27	26	25	24
subindex	/////	/////	/////	/////	/////	/////	/////	3

#### Octet 4

bit offset	23	22	21	20	19	18	17	16
subindex	/////	/////	/////	/////	/////	/////	/////	2

#### Octet 5

bit offset	15	14	13	12	11	10	9	8
subindex					1			
element bit	15	14	13	12	11	10	9	8

#### Octet 6

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

### ProcessDataOut "Segment mode" id=PO\_Segment

bit length: 40

data type: 40-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	Boolean	false = Off, true = On					Segment 1	
2	8	Boolean	false = Off, true = On					Segment 2	
3	16	Boolean	false = Off, true = On					Segment 3	
4	24	Boolean	false = Off, true = On					Segment 4	
5	32	Boolean	false = Off, true = On					Segment 5	

#### Octet 0

bit offset	39	38	37	36	35	34	33	32
subindex	/////	/////	/////	/////	/////	/////	/////	5

#### Octet 1

bit offset	31	30	29	28	27	26	25	24
subindex	/////	/////	/////	/////	/////	/////	/////	4

#### Octet 2

bit offset	23	22	21	20	19	18	17	16
subindex	/////	/////	/////	/////	/////	/////	/////	3

#### Octet 3

bit offset	15	14	13	12	11	10	9	8
subindex	/////	/////	/////	/////	/////	/////	/////	2

#### Octet 4

bit offset	7	6	5	4	3	2	1	0
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subindex	//////	//////	//////	//////	//////	//////	//////	1
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## ProcessData id=PD\_Statusleuchte (condition V\_Betriebsart = 4)

### ProcessDataIn "Hardware In" id=PI\_Statusleuchte

bit length: 56

data type: 56-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	16-bit UInteger	0..4095					Analog In	
2	16	Boolean	false = Off, true = On					Digital In 1	
3	24	Boolean	false = Off, true = On					Digital In 2	
4	32	Boolean	false = Off, true = On					Digital In 3	
5	40	Boolean	false = Off, true = On					Digital In 4	
6	48	Boolean	false = Off, true = On					Digital In 5	

#### Octet 0

bit offset	55	54	53	52	51	50	49	48
subindex	//////	//////	//////	//////	//////	//////	//////	6

#### Octet 1

bit offset	47	46	45	44	43	42	41	40
subindex	//////	//////	//////	//////	//////	//////	//////	5

#### Octet 2

bit offset	39	38	37	36	35	34	33	32
subindex	//////	//////	//////	//////	//////	//////	//////	4

#### Octet 3

bit offset	31	30	29	28	27	26	25	24
subindex	//////	//////	//////	//////	//////	//////	//////	3

#### Octet 4

bit offset	23	22	21	20	19	18	17	16
subindex	//////	//////	//////	//////	//////	//////	//////	2

#### Octet 5

bit offset	15	14	13	12	11	10	9	8
subindex					1			
element bit	15	14	13	12	11	10	9	8

#### Octet 6

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

## ProcessDataOut "Status signal mode" id=PO\_Statusleuchte

bit length: 40

data type: 40-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	Boolean	false = Off, true = On					Status signal 1	
2	8	Boolean	false = Off, true = On					Status signal 2	
3	16	Boolean	false = Off, true = On					Status signal 3	
4	24	Boolean	false = Off, true = On					Status signal 4	
5	32	Boolean	false = Off, true = On					Status signal 5	

#### Octet 0

bit offset	39	38	37	36	35	34	33	32
subindex	//////	//////	//////	//////	//////	//////	//////	5

#### Octet 1

bit offset	31	30	29	28	27	26	25	24
subindex	//////	//////	//////	//////	//////	//////	//////	4

#### Octet 2

bit offset	23	22	21	20	19	18	17	16
subindex	//////	//////	//////	//////	//////	//////	//////	3

#### Octet 3

bit offset	15	14	13	12	11	10	9	8
subindex	//////	//////	//////	//////	//////	//////	//////	2

#### Octet 4

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

## 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 "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, 131 = Back-to-box, 160 = Countdown Start/Continue, 161 = Countdown Pause, 162 = Countdown Reset, 163 = Measure LED count, 164 = Demo start, 165 = 4-20mA Teach lower limit, 166 = 4-20mA Teach upper limit, 167 = 0-10V Teach lower limit, 168 = 0-10V Teach upper limit

access rights: wo  
modifies other variables

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

### 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: "ipf electronic"  
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: "www.ipf-electronic.de"  
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

default value: "VY000009"

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

default value: "1"

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: 16-octet String UTF-8

access rights: ro

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 "Hardware Revision" index=22 id=V\_HardwareRevision

description: Unique, vendor-specific identifier of the hardware revision of the individual device.

data type: 64-octet String UTF-8

default value: "HW-V1.00"

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 "Firmware Revision" index=23 id=V\_FirmwareRevision

description: Unique, vendor-specific identifier of the firmware revision of the individual device.

data type: 64-octet String UTF-8

default value: "FW-V1.00"

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 "Application-specific Tag" index=24 id=V\_ApplicationSpecificTag

description: Possibility to mark a device with user- or application-specific information.

data type: 32-octet String UTF-8

access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
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
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### Standard Variable "Detailed Device Status" index=37 id=V\_DetailedDeviceStatus

description: List of all currently pending events in the device.  
data type: Array[4] of 3-octet OctetString (subindex access not supported)  
access rights: ro  
dynamic

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	2	2	2	3	3

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

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### Variable "Function Tag" index=25 id=V\_CP\_FunctionTag

data type: 32-octet String UTF-8  
default value: "\*\*\*\*"  
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

### Variable "Location Tag" index=26 id=V\_CP\_LocationTag

data type: 32-octet String UTF-8  
default value: "\*\*\*\*"  
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

### Variable "Application mode" index=140 id=V\_Betriebsart

data type: 8-bit UInteger  
allowed values: 1 = Segment mode, 2 = Level mode, 3 = Countdown mode, 4 = Status signal mode, 5 = Demo mode  
default value: 1  
access rights: rw

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

### Variable "LED count" index=141 id=V\_LEDAnzahl

data type: 8-bit UInteger  
allowed values: 1..180  
default value: 55  
access rights: rw

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

## Variable "LED offset" index=142 id=V\_LED\_Offset

data type: 8-bit UInteger  
allowed values: 0..179  
default value: 0  
access rights: rw

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

## Variable "Brightness" index=143 id=V\_Helligkeit

data type: 8-bit UInteger  
allowed values: 25..100 = Percent  
default value: 100  
access rights: rw

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

## Variable "Reverse order of LEDs" index=144 id=V\_Gespiegelt

data type: 8-bit UInteger  
allowed values: 0 = Off, 1 = On  
default value: 0  
access rights: rw

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

## Variable "Prozess interface" index=145 id=V\_ProzessSteuerung

data type: 8-bit UInteger  
allowed values: 0 = IO-Link interface, 1 = Hardware interface  
default value: 0  
access rights: rw

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

## Variable "Segment count" index=146 id=V\_SegmenteAnzahl

data type: 8-bit UInteger  
allowed values: 3..5  
default value: 3  
access rights: rw

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

## Variable "Segment 1" index=147 id=V\_Segment1

```
data type: 16-bit Record
access rights: rw
```

							mod.	excl.		
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subindex	bit offset	data type	allowed values	default value	acc. restr.	other var.	from DS	name	description
1	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	1				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Segment 2" index=148 id=V\_Segment2

data type: 16-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	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	4				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Segment 3" index=149 id=V\_Segment3

data type: 16-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	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	2				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Segment 4" index=150 id=V\_Segment4

data type: 16-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	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	0				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	

subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Segment 5" index=151 id=V\_Segment5

data type: 16-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	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	0				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Level" index=152 id=V\_Fuellstand

data type: 200-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	0	16-octet String UTF-8						Name	
2	128	8-bit UInteger	0..100 = Percent	30				Threshold warning condition	"Threshold warning condition" needs to be greater then "Threshold alarm condition".
3	136	8-bit UInteger	0..100 = Percent	10				Threshold alarm condition	"Threshold alarm condition" needs to be smaller then "Threshold warning condition".
4	144	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	2				Color good condition	
5	152	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode good condition	
6	160	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	5				Color warning condition	
7	168	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode warning condition	
8	176	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	1				Color alarm condition	
9	184	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode alarm condition	
10	192	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	0				Color remaining LEDs	

octet	0	1	2	3	4	5	6	7
bit offset	199 - 192	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136

subindex	10	9	8	7	6	5	4	3
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	135 - 128	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72
subindex	2	1	1	1	1	1	1	1
element bit	7 - 0							

octet	16	17	18	19	20	21	22	23
bit offset	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8
subindex	1	1	1	1	1	1	1	1

octet	24	
bit offset	7 - 0	
subindex	1	

## Variable "Countdown" index=153 id=V\_Countdown

data type: 224-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	0	16-octet String UTF-8						Name	
2	128	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	1				Time elapsed color	
3	136	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	2				Time elapsed blinking mode	
4	144	8-bit UInteger	0..60 = Seconds	10				Time elapsed blinking duration	
5	152	8-bit UInteger	0..100 = Percent	30				Threshold warning condition	"Threshold warning condition" needs to be greater then "Threshold alarm condition".
6	160	8-bit UInteger	0..100 = Percent	10				Threshold alarm condition	"Threshold alarm condition" needs to be smaller then "Threshold warning condition".
7	168	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	2				Color good condition	
8	176	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode good condition	
9	184	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	4				Color warning condition	
10	192	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode warning condition	
11	200	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	5				Color alarm condition	
12	208	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode alarm condition	
13	216	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 =	0				Color remaining LEDs	

			Custom color 2, 11 = Custom color 3						
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octet	0	1	2	3	4	5	6	7
bit offset	223 - 216	215 - 208	207 - 200	199 - 192	191 - 184	183 - 176	175 - 168	167 - 160
subindex	13	12	11	10	9	8	7	6
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	159 - 152	151 - 144	143 - 136	135 - 128	127 - 120	119 - 112	111 - 104	103 - 96
subindex	5	4	3	2	1	1	1	1
element bit	7 - 0	7 - 0	7 - 0	7 - 0				

octet	16	17	18	19	20	21	22	23
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	1	1	1	1	1	1	1	1

octet	24	25	26	27	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	1	1	

### Variable "Status signal 1" index=154 id=V\_Statusleuchte1

data type: 16-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	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	1				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Status signal 2" index=155 id=V\_Statusleuchte2

data type: 16-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	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	2				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Status signal 3" index=156 id=V\_Statusleuchte3

data type: 16-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
			0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 =						

1	0	8-bit UInteger	Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	4				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mod	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Status signal 4" index=157 id=V\_Statusleuchte4

data type: 16-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	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	3				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Status signal 5" index=158 id=V\_Statusleuchte5

data type: 16-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	0	8-bit UInteger	0 = No color (Off), 1 = Red, 2 = Green, 3 = Blue, 4 = Yellow, 5 = Orange, 6 = Cyan, 7 = Magenta, 8 = White, 9 = Custom color 1, 10 = Custom color 2, 11 = Custom color 3	8				Color	
2	8	8-bit UInteger	0 = Blinking disabled, 1 = Blinking slow, 2 = Blinking fast, 3 = Flashing slow, 4 = Flashing fast, 5 = Fading	0				Blinking mode	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	

### Variable "Display mode" index=159 id=V\_StatusleuchteDarstellung

data type: 16-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	0	8-bit UInteger	0 = Single color (priority decreases from channel 1 to channel 5), 1 = Rotating colors (channel 1 first and channel 5 last)	0				Display mode	
2	8	8-bit UInteger	0..255 = Seconds	2				Display time per color	

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	1	
element bit	7 - 0	7 - 0	



**Variable "Custom color 1" index=160 id=V\_Benutzerfarbe1**

data type: 24-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	0	8-bit UInteger	0..255 = RGB Range	0				Red	
2	8	8-bit UInteger	0..255 = RGB Range	0				Green	
3	16	8-bit UInteger	0..255 = RGB Range	0				Blue	

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

**Variable "Custom color 2" index=161 id=V\_Benutzerfarbe2**

data type: 24-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	0	8-bit UInteger	0..255 = RGB Range	0				Red	
2	8	8-bit UInteger	0..255 = RGB Range	0				Green	
3	16	8-bit UInteger	0..255 = RGB Range	0				Blue	

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

**Variable "Custom color 3" index=162 id=V\_Benutzerfarbe3**

data type: 24-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	0	8-bit UInteger	0..255 = RGB Range	0				Red	
2	8	8-bit UInteger	0..255 = RGB Range	0				Green	
3	16	8-bit UInteger	0..255 = RGB Range	0				Blue	

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

**Variable "Display mode level" index=170 id=V\_FuellstandDarstellung**

data type: 8-bit UInteger

allowed values: 0 = Display mode default, 1 = Display mode traffic light

default value: 1

access rights: rw

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

**Variable "Countdown time hardware" index=171 id=V\_CountdownZeit**

data type: 16-bit UInteger

allowed values: 1..30000 = Seconds

default value: 20

access rights: rw

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

**Variable "Level interface" index=172 id=V\_FuellstandSchnittstelle**

data type: 8-bit UInteger  
 allowed values: 0 = 0-10V, 1 = 4-20mA  
 default value: 1  
 access rights: rw

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

**Variable "Lower Limit 4-20mA (4mA = 555, 20mA = 2760)" index=173 id=V\_Fuellstand\_Fenstermodus\_AUnter**

description: Value Range: 0 -> 0mA, 3740-> 27mA  
 data type: 16-bit UInteger  
 allowed values: 0..3750  
 default value: 0  
 access rights: rw

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

**Variable "Upper Limit 4-20mA (4mA = 2760, 20mA = 2760)" index=174 id=V\_Fuellstand\_Fenstermodus\_AOber**

description: Value Range: 0 -> 0mA, 3740-> 27mA  
 data type: 16-bit UInteger  
 allowed values: 0..3750  
 default value: 3750  
 access rights: rw

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

**Variable "Lower Limit 0-10V (0V = 0, 10V = 2820)" index=175 id=V\_Fuellstand\_Fenstermodus\_VUnter**

description: Value Range: 0 -> 0V, 3750 -> 14V  
 data type: 16-bit UInteger  
 allowed values: 0..3750  
 default value: 0  
 access rights: rw

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

**Variable "Upper Limit 0-10V (0V = 0, 10V = 2820)" index=176 id=V\_Fuellstand\_Fenstermodus\_VOber**

description: Value Range: 0 -> 0V, 3750 -> 14V  
 data type: 16-bit UInteger  
 allowed values: 0..3750  
 default value: 3750  
 access rights: rw

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

**Variable "Location mode" index=242 id=V\_Ortung**

data type: 8-bit UInteger  
 allowed values: 0 = Off, 1 = On  
 default value: 0  
 access rights: rw  
 excluded from data storage

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

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## ErrorTypes

Code	Additional code	Name	Description
128 (0x80)	0 (0x00)	Device application error - no details	Service was denied by the technology-specific application. No detailed root-cause information is available.
128 (0x80)	17 (0x11)	Index not available	Read or write access attempt to a non-existing index.
128 (0x80)	18 (0x12)	Subindex not available	Read or write access attempt to a non-existing subindex of an existing index.
128 (0x80)	32 (0x20)	Service temporarily not available	Parameter not accessible due to the current state of the technology-specific application.
128 (0x80)	33 (0x21)	Service temporarily unavailable - local control	Parameter not accessible. The device is currently in an ongoing, locally controlled operation.
128 (0x80)	34 (0x22)	Service temporarily unavailable - device control	Parameter not accessible. The technology-specific application is currently in a remotely triggered operation.
128 (0x80)	35 (0x23)	Access denied	Write access to a read-only parameter or read access to write-only parameter.
128 (0x80)	48 (0x30)	Parameter value out of range	Written parameter value is outside of the permitted value range.
128 (0x80)	49 (0x31)	Parameter value above limit	Written parameter value is above its specified value range.
128 (0x80)	50 (0x32)	Parameter value below limit	Written parameter value is below its specified value range.
128 (0x80)	51 (0x33)	Parameter length overrun	Written parameter is longer than specified.
128 (0x80)	52 (0x34)	Parameter length underrun	Written parameter is shorter than specified.
128 (0x80)	53 (0x35)	Function unavailable	Written command is not supported by the technology-specific application.
128 (0x80)	54 (0x36)	Function temporarily unavailable	Written command is unavailable due to the current state of the technology-specific application.
128 (0x80)	64 (0x40)	Invalid parameter set	Written single parameter value collides with other existing parameter settings.
128 (0x80)	65 (0x41)	Inconsistent parameter set	Parameter set inconsistencies at the end of block parameter transfer. Device plausibility check failed.
128 (0x80)	130 (0x82)	Application not ready	Read or write access denied. The technology-specific application is temporarily unavailable.
129 (0x81)	150 (0x96)	Measure LED count	LED strip needs to have between 1-180 LEDs
129 (0x81)	151 (0x97)	No countdown time	
129 (0x81)	152 (0x98)	Process controll through hardware	
129 (0x81)	153 (0x99)	No active countdown	
129 (0x81)	154 (0x9a)	Lower limit needs to be lower than the current upper limit	
129 (0x81)	155 (0x9b)	Upper limit needs to be higher than the current lower limit	
129 (0x81)	156 (0x9c)	Wrong Hardware-Mode	

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## Events

Code	Type	Name	Description
25376 (0x6320)	Error	Parameter error	Check datasheet and values
25377 (0x6321)	Error	Parameter missing	Check datasheet

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## Operator Menus

**Identification Menu****Identification**

V\_VendorText  
V\_ProductName  
V\_SerialNumber  
V\_FirmwareRevision  
V\_ApplicationSpecificTag  
V\_CP\_FunctionTag  
V\_CP\_LocationTag

**Parameters Menu**

V\_Betriebsart  
V\_LEDAnzahl  
V\_LED\_Offset  
V\_Helligkeit  
V\_Gespiegelt  
V\_ProzessSteuerung  
V\_SystemCommand, Button:=163  
Description=Measure LED count

*If V\_Betriebsart = 1:*

**Application mode Segment**

V\_SegmenteAnzahl  
V\_Segment1  
V\_Segment2  
V\_Segment3  
V\_Segment4  
V\_Segment5

*If V\_Betriebsart = 2:*

**Application mode Füllstand**

V\_Fuellstand  
V\_FuellstandDarstellung  
V\_FuellstandSchnittstelle

**Level window mode**

V\_SystemCommand, Button:=165  
Description=Teach window mode 4-20mA lower limit  
V\_Fuellstand\_Fenstermodus\_AUnter  
V\_SystemCommand, Button:=166  
Description=Teach window mode 4-20mA upper limit  
V\_Fuellstand\_Fenstermodus\_AOber  
V\_SystemCommand, Button:=167  
Description=Teach window mode 0-10V lower limit  
V\_Fuellstand\_Fenstermodus\_VUnter  
V\_SystemCommand, Button:=168  
Description=Teach window mode 0-10V upper limit  
V\_Fuellstand\_Fenstermodus\_VOber

*If V\_Betriebsart = 3:*

**Application mode Countdown**

V\_SystemCommand, Button:=160  
Description=Countdown starts if Countdown is inactive or Countdown is paused. Countdown restarts if Countdown already active.  
V\_SystemCommand, Button:=161  
Description=Countdown Pause  
V\_SystemCommand, Button:=162  
Description=Countdown Reset  
V\_CountdownZeit  
V\_Countdown

*If V\_Betriebsart = 4:*

**Application mode Status signal**

V\_StatusleuchteDarstellung  
V\_Statusleuchte1  
V\_Statusleuchte2  
V\_Statusleuchte3  
V\_Statusleuchte4  
V\_Statusleuchte5

*If V\_Betriebsart = 5:*

**Demo**

V\_SystemCommand, Button:=164  
Description=Demo start

**Restore Factory Settings**

V\_SystemCommand, Button:=130  
 Description=The parameter of the device are reset to factory settings. Note: A download of the data storage may be executed on the next power cycle and overwrite the factory default settings!

V\_SystemCommand, Button:=131  
 Description=The parameter of the device are set to factory default values and communication will be inhibited until the next power cycle.  
 Note: Directly detach the device from the master port!

#### Custom color

V\_Benutzerfarbe1  
 V\_Benutzerfarbe2  
 V\_Benutzerfarbe3

#### Diagnosis Menu

Location mode

V\_Ortung

## Maintenance Menus

#### Identification Menu

##### Identification

V\_VendorText  
 V\_ProductName  
 V\_SerialNumber  
 V\_FirmwareRevision  
 V\_ApplicationSpecificTag  
 V\_CP\_FunctionTag  
 V\_CP\_LocationTag

#### Parameters Menu

V\_Betriebsart  
 V\_LEDAnzahl  
 V\_LED\_Offset  
 V\_Helligkeit  
 V\_Gespiegelt  
 V\_ProzessSteuerung  
 V\_SystemCommand, Button:=163  
 Description=Measure LED count

If V\_Betriebsart = 1:

##### Application mode Segment

V\_SegmenteAnzahl  
 V\_Segment1  
 V\_Segment2  
 V\_Segment3  
 V\_Segment4  
 V\_Segment5

If V\_Betriebsart = 2:

##### Application mode Füllstand

V\_Fuellstand  
 V\_FuellstandDarstellung  
 V\_FuellstandSchnittstelle

##### Level window mode

V\_SystemCommand, Button:=165  
 Description=Teach window mode 4-20mA lower limit  
 V\_Fuellstand\_Fenstermodus\_AUnter  
 V\_SystemCommand, Button:=166  
 Description=Teach window mode 4-20mA upper limit  
 V\_Fuellstand\_Fenstermodus\_AOber  
 V\_SystemCommand, Button:=167  
 Description=Teach window mode 0-10V lower limit  
 V\_Fuellstand\_Fenstermodus\_VUnter  
 V\_SystemCommand, Button:=168  
 Description=Teach window mode 0-10V upper limit  
 V\_Fuellstand\_Fenstermodus\_VOber

If V\_Betriebsart = 3:

##### Application mode Countdown

V\_SystemCommand, Button:=160  
 Description=Countdown starts if Countdown is inactive or Countdown is paused. Countdown restarts if Countdown already active.  
 V\_SystemCommand, Button:=161  
 Description=Countdown Pause

V_SystemCommand, Button:=162
Description=Countdown Reset
V_CountdownZeit
V_Countdown

If V\_Betriebsart = 4:

Application mode Status signal
V_StatusleuchteDarstellung
V_Statusleuchte1
V_Statusleuchte2
V_Statusleuchte3
V_Statusleuchte4
V_Statusleuchte5

If V\_Betriebsart = 5:

Demo
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#### Restore Factory Settings

V_SystemCommand, Button:=130
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Custom color
V_Benutzerfarbe1
V_Benutzerfarbe2
V_Benutzerfarbe3

#### Diagnosis Menu

Location mode
V_Ortung

## Commissioning Menus

#### Identification Menu

Identification
V_VendorText
V_ProductName
V_SerialNumber
V_FirmwareRevision
V_ApplicationSpecificTag
V_CP_FunctionTag
V_CP_LocationTag

#### Parameters Menu

V_Betriebsart
V_LEDAnzahl
V_LED_Offset
V_Helligkeit
V_Gespiegelt
V_ProzessSteuerung
V_SystemCommand, Button:=163
Description=Measure LED count

If V\_Betriebsart = 1:

Application mode Segment
V_SegmenteAnzahl
V_Segment1
V_Segment2
V_Segment3
V_Segment4
V_Segment5

If V\_Betriebsart = 2:

Application mode Füllstand
V_Fuellstand
V_FuellstandDarstellung
V_FuellstandSchnittstelle
Level window mode

V_SystemCommand, Button:=165
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V_Fuellstand_Fenstermodus_AUnter
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V_SystemCommand, Button:=168
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V_Fuellstand_Fenstermodus_VOber

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V_SystemCommand, Button:=162
Description=Countdown Reset
V_CountdownZeit
V_Countdown

If V\_Betriebsart = 4:

#### Application mode Status signal

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V_Statusleuchte1
V_Statusleuchte2
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V_Statusleuchte4
V_Statusleuchte5

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#### Custom color

V_Benutzerfarbe1
V_Benutzerfarbe2
V_Benutzerfarbe3

#### Diagnosis Menu

##### Location mode

V\_Ortung

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