



IO-Link Interface Description

DV2900
DV2910
DV2920
DV2930

EN



2 Device variant

<p>DV2900</p> <p>Multi-Color Light, with bracket, without buzzer</p>		
<p>DV2910</p> <p>Multi-Color Light, with bracket, with buzzer</p>		
<p>DV2920</p> <p>Multi-Color Light, without bracket, without buzzer</p>		
<p>DV2930</p> <p>Multi-Color Light, without bracket, with buzzer</p>		

Vendor ID	310 / Bytes 1-54 (hex: 01-36)
Device ID	1533 / Bytes 0-5-253 (hex: 00-05-FD)
Bit rate	COM2
Minimum cycle time	2,7 ms
SIO mode supported	Yes
Block parameterization	Yes
Data storage	Yes
Supported profiles	Identification and Diagnosis



NOTE:

- If the Vendor ID and Device ID is referenced in your PLC system, then it is ensured that
- the connected Device type is correct
- the IO-Link datastorage is enabled
- your application is still able to work, even your Device has been exchanged with a successor model



For process value update rate, as well as further information concerning sensor performance, see datasheet.

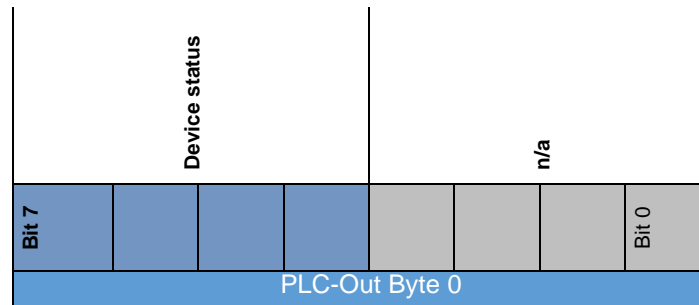


3 Process data

ProcessDataIn @ Operating mode = Signal Light Mode

RecordT (8 Bit)

Name	Value range	Data type
Device status		UInteger (4 Bit)
Value range	0 1 2 3 4	(Device is OK) (Maintenance required) (Out of specification) (Functional check) (Failure)



* n/a: Not available area. Used to cover structured process data mapping.

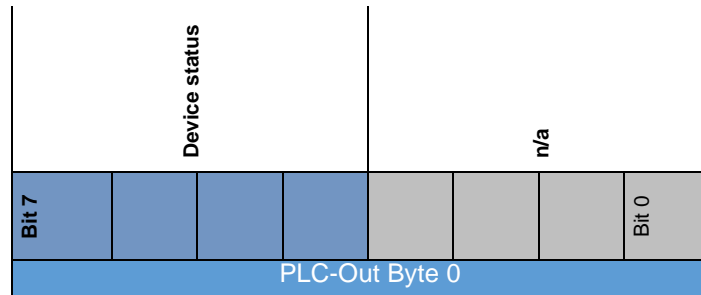


3 Process data

ProcessDataIn @ Operating mode = Level Mode

RecordT (8 Bit)

Name	Value range	Data type
Device status		UInteger (4 Bit)
Value range	0	(Device is OK)
	1	(Maintenance required)
	2	(Out of specification)
	3	(Functional check)
	4	(Failure)



* n/a: Not available area. Used to cover structured process data mapping.

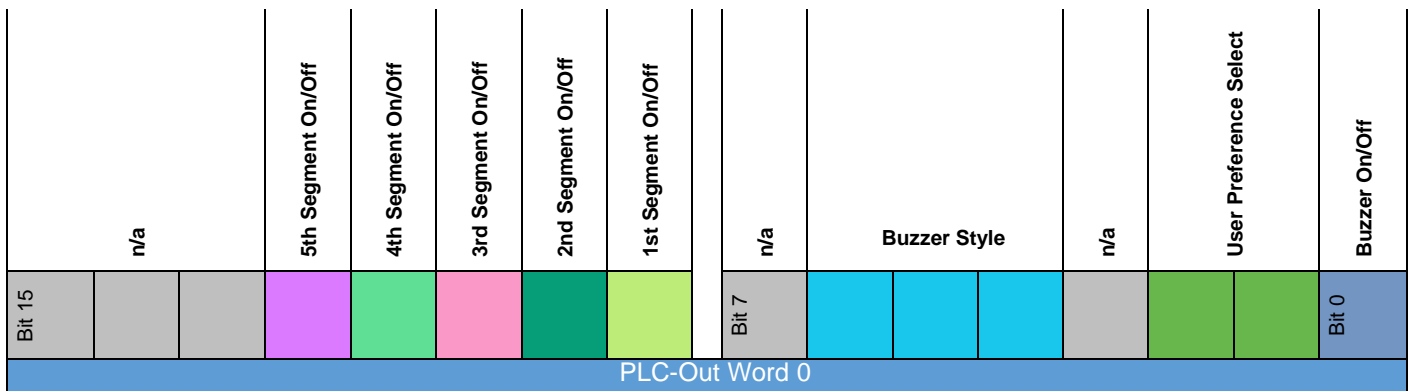


3 Process data

ProcessDataOut @ Operating mode = Signal Light Mode

RecordT (16 Bit)

Name	Value range		Data type
Buzzer On/Off			BooleanT
Value range	false	(Disable)	
	true	(Enable)	
User Preference Select			UIntegerT (2 Bit)
Value range	0	(Not use)	
	1	(Bank 1 use)	
	2	(Bank 2 use)	
	3	(Bank 3 use)	
Buzzer Style			UIntegerT (3 Bit)
Value range	0	(Buzzer No.1 (off))	
	1	(Buzzer No.2)	
	2	(Buzzer No.3)	
	3	(Buzzer No.4)	
	4	(Buzzer No.5)	
	5	(Buzzer No.6)	
	6	(Buzzer No.7)	
	7	(Buzzer No.8)	
1st Segment On/Off			BooleanT
Value range	false	(off)	
	true	(on)	
2nd Segment On/Off			BooleanT
Value range	false	(off)	
	true	(on)	
3rd Segment On/Off			BooleanT
Value range	false	(off)	
	true	(on)	
4th Segment On/Off			BooleanT
Value range	false	(off)	
	true	(on)	
5th Segment On/Off			BooleanT
Value range	false	(off)	
	true	(on)	



* n/a: Not available area. Used to cover structured process data mapping.

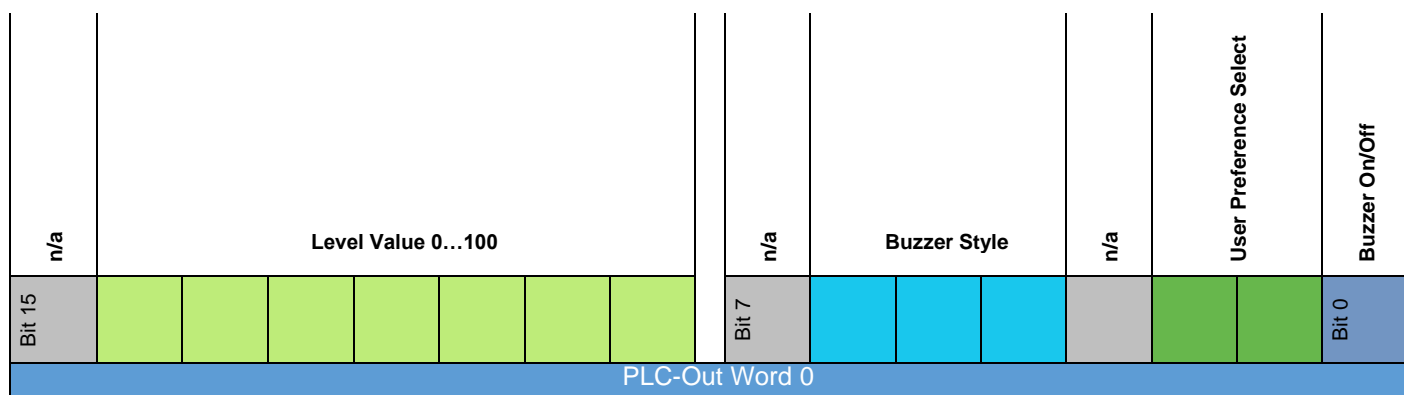


3 Process data

ProcessDataOut @ Operating mode = Level Mode

RecordT (16 Bit)

Name	Value range	Data type
Buzzer On/Off		BooleanT
Value range	false (Disable) true (Enable)	
User Preference Select		UIntegerT (2 Bit)
Value range	0 (Not use) 1 (Bank 1 use) 2 (Bank 2 use) 3 (Bank 3 use)	
Buzzer Style		UIntegerT (3 Bit)
Value range	0 (Buzzer No.1 (off)) 1 (Buzzer No.2) 2 (Buzzer No.3) 3 (Buzzer No.4) 4 (Buzzer No.5) 5 (Buzzer No.6) 6 (Buzzer No.7) 7 (Buzzer No.8)	
Level Value		UIntegerT (7 Bit)
Value range	0...100	



* n/a: Not available area. Used to cover structured process data mapping.



4 Parameter overview

Parameter	Index	Subindex	Type	Factory setting	page
Vendor name	16		StringT (19 Byte)	ifm electronic gmbh	11
Vendor text	17		StringT (11 Byte)	www.ifm.com	11
Product Name	18		StringT (16 Byte)		11
Product ID	19		StringT (16 Byte)		11
Product Text	20		StringT (64 Byte)		11
Serial Number	21		StringT (16 Byte)		11
Hardware Revision	22		StringT (2 Byte)		11
Firmware Revision	23		StringT (4 Byte)		11
Application-specific Tag	24		StringT (32 Byte)	***	11
Function Tag	25		StringT (32 Byte)	***	11
Location Tag	26		StringT (32 Byte)	***	11
Device Status	36		UIntegerT (8 Bit)	0 (Device is OK)	41
Detailed Device Status	37		OctetStringT (3 Byte) [5]		41
ProcessDataIn @ Operati...	40		RecordT (8 Bit)		
Device Status	40	1	UIntegerT (4 Bit)		
ProcessDataOut @ Operat...	41		RecordT (16 Bit)		
Buzzer On/Off	41	1	BooleanT		
User Preference Sel...	41	2	UIntegerT (2 Bit)		
Buzzer Style	41	3	UIntegerT (3 Bit)		
Level Value	41	4	UIntegerT (7 Bit)		
Operating Hours	542		IntegerT (32 Bit)		41
Internal Temperature	543		IntegerT (16 Bit)		41
Active Events	545		RecordT (32 Bit)		41
ParaConfig Fault Collec...	546		ArrayT	0	41
Operating mode	684		IntegerT (8 Bit)	0 (Signal Light Mode)	12
Segment colors	12000		RecordT (40 Bit)		12
Segment 1	12000	1	IntegerT (8 Bit)	1 (Red)	
Segment 2	12000	2	IntegerT (8 Bit)	3 (Amber)	
Segment 3	12000	3	IntegerT (8 Bit)	2 (Green)	
Segment 4	12000	4	IntegerT (8 Bit)	7 (White)	
Segment 5	12000	5	IntegerT (8 Bit)	4 (Blue)	
Segment appearance	12001		RecordT (40 Bit)		13
Segment 1	12001	1	IntegerT (8 Bit)	0 (Continuous)	
Segment 2	12001	2	IntegerT (8 Bit)	0 (Continuous)	
Segment 3	12001	3	IntegerT (8 Bit)	0 (Continuous)	
Segment 4	12001	4	IntegerT (8 Bit)	0 (Continuous)	
Segment 5	12001	5	IntegerT (8 Bit)	0 (Continuous)	
LED Intensity	12002		IntegerT (8 Bit)	70	13
Buzzer Intensity	12003		IntegerT (8 Bit)	100	13
User preference color B...	12006		RecordT (160 Bit)		18
1st LED	12006	1	IntegerT (8 Bit)	0 (Off)	
2nd LED	12006	2	IntegerT (8 Bit)	0 (Off)	
3rd LED	12006	3	IntegerT (8 Bit)	0 (Off)	
4th LED	12006	4	IntegerT (8 Bit)	0 (Off)	
5th LED	12006	5	IntegerT (8 Bit)	0 (Off)	



4 Parameter overview

Parameter	Index	Subindex	Type	Factory setting	page
6th LED	12006	6	IntegerT (8 Bit)	0 (Off)	
7th LED	12006	7	IntegerT (8 Bit)	0 (Off)	
8th LED	12006	8	IntegerT (8 Bit)	0 (Off)	
9th LED	12006	9	IntegerT (8 Bit)	0 (Off)	
10th LED	12006	10	IntegerT (8 Bit)	0 (Off)	
11th LED	12006	11	IntegerT (8 Bit)	0 (Off)	
12th LED	12006	12	IntegerT (8 Bit)	0 (Off)	
13th LED	12006	13	IntegerT (8 Bit)	0 (Off)	
14th LED	12006	14	IntegerT (8 Bit)	0 (Off)	
15th LED	12006	15	IntegerT (8 Bit)	0 (Off)	
16th LED	12006	16	IntegerT (8 Bit)	0 (Off)	
17th LED	12006	17	IntegerT (8 Bit)	0 (Off)	
18th LED	12006	18	IntegerT (8 Bit)	0 (Off)	
19th LED	12006	19	IntegerT (8 Bit)	0 (Off)	
20th LED	12006	20	IntegerT (8 Bit)	0 (Off)	
User preference color B...	12007		RecordT (160 Bit)		23
1st LED	12007	1	IntegerT (8 Bit)	0 (Off)	
2nd LED	12007	2	IntegerT (8 Bit)	0 (Off)	
3rd LED	12007	3	IntegerT (8 Bit)	0 (Off)	
4th LED	12007	4	IntegerT (8 Bit)	0 (Off)	
5th LED	12007	5	IntegerT (8 Bit)	0 (Off)	
6th LED	12007	6	IntegerT (8 Bit)	0 (Off)	
7th LED	12007	7	IntegerT (8 Bit)	0 (Off)	
8th LED	12007	8	IntegerT (8 Bit)	0 (Off)	
9th LED	12007	9	IntegerT (8 Bit)	0 (Off)	
10th LED	12007	10	IntegerT (8 Bit)	0 (Off)	
11th LED	12007	11	IntegerT (8 Bit)	0 (Off)	
12th LED	12007	12	IntegerT (8 Bit)	0 (Off)	
13th LED	12007	13	IntegerT (8 Bit)	0 (Off)	
14th LED	12007	14	IntegerT (8 Bit)	0 (Off)	
15th LED	12007	15	IntegerT (8 Bit)	0 (Off)	
16th LED	12007	16	IntegerT (8 Bit)	0 (Off)	
17th LED	12007	17	IntegerT (8 Bit)	0 (Off)	
18th LED	12007	18	IntegerT (8 Bit)	0 (Off)	
19th LED	12007	19	IntegerT (8 Bit)	0 (Off)	
20th LED	12007	20	IntegerT (8 Bit)	0 (Off)	
User preference color B...	12008		RecordT (160 Bit)		28
1st LED	12008	1	IntegerT (8 Bit)	0 (Off)	
2nd LED	12008	2	IntegerT (8 Bit)	0 (Off)	
3rd LED	12008	3	IntegerT (8 Bit)	0 (Off)	
4th LED	12008	4	IntegerT (8 Bit)	0 (Off)	
5th LED	12008	5	IntegerT (8 Bit)	0 (Off)	
6th LED	12008	6	IntegerT (8 Bit)	0 (Off)	
7th LED	12008	7	IntegerT (8 Bit)	0 (Off)	
8th LED	12008	8	IntegerT (8 Bit)	0 (Off)	



4 Parameter overview

Parameter	Index	Subindex	Type	Factory setting	page
9th LED	12008	9	IntegerT (8 Bit)	0 (Off)	
10th LED	12008	10	IntegerT (8 Bit)	0 (Off)	
11th LED	12008	11	IntegerT (8 Bit)	0 (Off)	
12th LED	12008	12	IntegerT (8 Bit)	0 (Off)	
13th LED	12008	13	IntegerT (8 Bit)	0 (Off)	
14th LED	12008	14	IntegerT (8 Bit)	0 (Off)	
15th LED	12008	15	IntegerT (8 Bit)	0 (Off)	
16th LED	12008	16	IntegerT (8 Bit)	0 (Off)	
17th LED	12008	17	IntegerT (8 Bit)	0 (Off)	
18th LED	12008	18	IntegerT (8 Bit)	0 (Off)	
19th LED	12008	19	IntegerT (8 Bit)	0 (Off)	
20th LED	12008	20	IntegerT (8 Bit)	0 (Off)	
Select user color	12009		IntegerT (8 Bit)	7	29
Size of segment	12010		RecordT (40 Bit)		29
Segment 1	12010	1	IntegerT (8 Bit)	4	
Segment 2	12010	2	IntegerT (8 Bit)	4	
Segment 3	12010	3	IntegerT (8 Bit)	4	
Segment 4	12010	4	IntegerT (8 Bit)	4	
Segment 5	12010	5	IntegerT (8 Bit)	4	
Blank between Segments	12011		UIntegerT (8 Bit)	0 (Disable)	29
Direction of flow	12012		IntegerT (8 Bit)	0 (Bottom up)	29
Level meter thresholds	12013		RecordT (160 Bit)		31
1st LED	12013	1	IntegerT (8 Bit)	0	
2nd LED	12013	2	IntegerT (8 Bit)	5	
3rd LED	12013	3	IntegerT (8 Bit)	10	
4th LED	12013	4	IntegerT (8 Bit)	15	
5th LED	12013	5	IntegerT (8 Bit)	20	
6th LED	12013	6	IntegerT (8 Bit)	25	
7th LED	12013	7	IntegerT (8 Bit)	30	
8th LED	12013	8	IntegerT (8 Bit)	35	
9th LED	12013	9	IntegerT (8 Bit)	40	
10th LED	12013	10	IntegerT (8 Bit)	45	
11th LED	12013	11	IntegerT (8 Bit)	50	
12th LED	12013	12	IntegerT (8 Bit)	55	
13th LED	12013	13	IntegerT (8 Bit)	60	
14th LED	12013	14	IntegerT (8 Bit)	65	
15th LED	12013	15	IntegerT (8 Bit)	70	
16th LED	12013	16	IntegerT (8 Bit)	75	
17th LED	12013	17	IntegerT (8 Bit)	80	
18th LED	12013	18	IntegerT (8 Bit)	85	
19th LED	12013	19	IntegerT (8 Bit)	90	
20th LED	12013	20	IntegerT (8 Bit)	95	
LED Colors	12014		RecordT (160 Bit)		36
1st LED	12014	1	IntegerT (8 Bit)	13	
2nd LED	12014	2	IntegerT (8 Bit)	13	




4 Parameter overview

Parameter	Index	Subindex	Type	Factory setting	page
3rd LED	12014	3	IntegerT (8 Bit)	13	
4th LED	12014	4	IntegerT (8 Bit)	13	
5th LED	12014	5	IntegerT (8 Bit)	11	
6th LED	12014	6	IntegerT (8 Bit)	11	
7th LED	12014	7	IntegerT (8 Bit)	11	
8th LED	12014	8	IntegerT (8 Bit)	11	
9th LED	12014	9	IntegerT (8 Bit)	9	
10th LED	12014	10	IntegerT (8 Bit)	9	
11th LED	12014	11	IntegerT (8 Bit)	9	
12th LED	12014	12	IntegerT (8 Bit)	9	
13th LED	12014	13	IntegerT (8 Bit)	5	
14th LED	12014	14	IntegerT (8 Bit)	5	
15th LED	12014	15	IntegerT (8 Bit)	5	
16th LED	12014	16	IntegerT (8 Bit)	5	
17th LED	12014	17	IntegerT (8 Bit)	1 (Red)	
18th LED	12014	18	IntegerT (8 Bit)	1 (Red)	
19th LED	12014	19	IntegerT (8 Bit)	1 (Red)	
20th LED	12014	20	IntegerT (8 Bit)	1 (Red)	
LED appearance	12015		RecordT (160 Bit)		40
1st LED	12015	1	IntegerT (8 Bit)	0 (Continuous)	
2nd LED	12015	2	IntegerT (8 Bit)	0 (Continuous)	
3rd LED	12015	3	IntegerT (8 Bit)	0 (Continuous)	
4th LED	12015	4	IntegerT (8 Bit)	0 (Continuous)	
5th LED	12015	5	IntegerT (8 Bit)	1 (Blinking slow)	
6th LED	12015	6	IntegerT (8 Bit)	1 (Blinking slow)	
7th LED	12015	7	IntegerT (8 Bit)	1 (Blinking slow)	
8th LED	12015	8	IntegerT (8 Bit)	1 (Blinking slow)	
9th LED	12015	9	IntegerT (8 Bit)	3 (Blinking fast)	
10th LED	12015	10	IntegerT (8 Bit)	3 (Blinking fast)	
11th LED	12015	11	IntegerT (8 Bit)	3 (Blinking fast)	
12th LED	12015	12	IntegerT (8 Bit)	3 (Blinking fast)	
13th LED	12015	13	IntegerT (8 Bit)	5 (Flashing mid)	
14th LED	12015	14	IntegerT (8 Bit)	5 (Flashing mid)	
15th LED	12015	15	IntegerT (8 Bit)	5 (Flashing mid)	
16th LED	12015	16	IntegerT (8 Bit)	5 (Flashing mid)	
17th LED	12015	17	IntegerT (8 Bit)	6 (Flashing fast)	
18th LED	12015	18	IntegerT (8 Bit)	6 (Flashing fast)	
19th LED	12015	19	IntegerT (8 Bit)	6 (Flashing fast)	
20th LED	12015	20	IntegerT (8 Bit)	6 (Flashing fast)	
Scope of appearance	12016		IntegerT (8 Bit)	0 (All LEDs)	40



1 System Command

 Command interface for applications. A positive acknowledge indicates the complete and correct finalization of the requested function. System Command information

- Address: Index 2, Subindex 0
- Datatype: UInteger (8 Bit)
- AccessRight: Write Only

#	Text	Description
1	Upload Start	Start block parameter upload
2	Upload End	End block parameter upload
3	Download Start	Start block parameter download
4	Download End	Stop block parameter download
5	Store	Finalize block parameterization and start Data Storage
6	Break	Cancel block parameterization
129	Application Reset	The parameter of the technology-specific application are set to default values. Identification parameter remain unchanged. An upload to the data storage of the master will be executed, if activated in the port configuration of the master.
131	Back-to-box	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!
222	Flash On	Flash On
223	Flash Off	Flash Off
240	IO-Link 1.1 system test command 240, Event 8DFE appears	IO-Link 1.1 system test command 240, Event 8DFE appears
241	IO-Link 1.1 system test command 241, Event 8DFE disappears	IO-Link 1.1 system test command 241, Event 8DFE disappears
242	IO-Link 1.1 system test command 242, Event 8DFF appears	IO-Link 1.1 system test command 242, Event 8DFF appears
243	IO-Link 1.1 system test command 243, Event 8DFF disappears	IO-Link 1.1 system test command 243, Event 8DFF disappears



2 Identification

Vendor name	Index 16	Subindex 0	StringT (19 Byte)	ReadOnly
The vendor name that is assigned to a Vendor ID.				
Factory setting	ifm electronic gmbh			
Vendor text	Index 17	Subindex 0	StringT (11 Byte)	ReadOnly
Additional information about the vendor.				
Factory setting	www.ifm.com			
Product Name	Index 18	Subindex 0	StringT (16 Byte)	ReadOnly
Complete product name.				
Product ID	Index 19	Subindex 0	StringT (16 Byte)	ReadOnly
Vendor-specific product or type identification (e.g., item number or model number).				
Product Text	Index 20	Subindex 0	StringT (64 Byte)	ReadOnly
Additional product information for the device.				
Serial Number	Index 21	Subindex 0	StringT (16 Byte)	ReadOnly
Unique, vendor-specific identifier of the individual device.				
Hardware Revision	Index 22	Subindex 0	StringT (2 Byte)	ReadOnly
Unique, vendor-specific identifier of the hardware revision of the individual device.				
Firmware Revision	Index 23	Subindex 0	StringT (4 Byte)	ReadOnly
Unique, vendor-specific identifier of the firmware revision of the individual device.				
Application-specific Tag	Index 24	Subindex 0	StringT (32 Byte)	ReadWrite
Possibility to mark a device with user- or application-specific information.				
Factory setting	***			
Function Tag	Index 25	Subindex 0	StringT (32 Byte)	ReadWrite
Possibility to mark a device with function-specific information.				
Factory setting	***			
Location Tag	Index 26	Subindex 0	StringT (32 Byte)	ReadWrite
Possibility to mark a device with location-specific information.				
Factory setting	***			



3 Parameters

Operating mode	Index 684	Subindex 0	IntegerT (8 Bit)	ReadWrite
Switch between Signal Light- and Level Meter Mode				
Factory setting	0	(Signal Light Mode)		
Value range	0	(Signal Light Mode)		
	1	(Level Meter Mode)		
Segment colors	Index 12000	Subindex 0	RecordT (40 Bit)	ReadWrite
Select between different colors (incl. off) for individual segments in Signal Light Mode.				
Segment 1		Subindex 1	IntegerT (8 Bit)	
Select color (incl. off) for 1st segment.				
Factory setting	1	(Red)		
Value range	0	(Off)		
	1	(Red)		
	2	(Green)		
	3	(Amber)		
	4	(Blue)		
	5	(Purple)		
	6	(Cyan)		
	7	(White)		
	8	(User Color (selected in "Select user color" parameter))		
Segment 2		Subindex 2	IntegerT (8 Bit)	
Select color (incl. off) for 2nd segment.				
Factory setting	3	(Amber)		
Value range	0	(Off)		
	1	(Red)		
	2	(Green)		
	3	(Amber)		
	4	(Blue)		
	5	(Purple)		
	6	(Cyan)		
	7	(White)		
	8	(User Color (selected in "Select user color" parameter))		
Segment 3		Subindex 3	IntegerT (8 Bit)	
Select color (incl. off) for 3rd segment.				
Factory setting	2	(Green)		
Value range	0	(Off)		
	1	(Red)		
	2	(Green)		
	3	(Amber)		
	4	(Blue)		
	5	(Purple)		
	6	(Cyan)		
	7	(White)		
	8	(User Color (selected in "Select user color" parameter))		
Segment 4		Subindex 4	IntegerT (8 Bit)	
Select color (incl. off) for 4th segment.				
Factory setting	7	(White)		
Value range	0	(Off)		
	1	(Red)		
	2	(Green)		
	3	(Amber)		
	4	(Blue)		
	5	(Purple)		
	6	(Cyan)		
	7	(White)		
	8	(User Color (selected in "Select user color" parameter))		
Segment 5		Subindex 5	IntegerT (8 Bit)	
Select color (incl. off) for 5th segment.				
Factory setting	4	(Blue)		
Value range	0	(Off)		
	1	(Red)		
	2	(Green)		
	3	(Amber)		
	4	(Blue)		
	5	(Purple)		
	6	(Cyan)		
	7	(White)		
	8	(User Color (selected in "Select user color" parameter))		



3 Parameters

Segment appearance	Index 12001	Subindex 0	RecordT (40 Bit)	ReadWrite
Select between different appearances for individual segments in Signal Light Mode.				
Segment 1		Subindex 1	IntegerT (8 Bit)	
Select appearance for 1st segment.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
Segment 2		Subindex 2	IntegerT (8 Bit)	
Select appearance for 2nd segment.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
Segment 3		Subindex 3	IntegerT (8 Bit)	
Select appearance for 3rd segment.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
Segment 4		Subindex 4	IntegerT (8 Bit)	
Select appearance for 4th segment.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
Segment 5		Subindex 5	IntegerT (8 Bit)	
Select appearance for 5th segment.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
LED Intensity	Index 12002	Subindex 0	IntegerT (8 Bit)	ReadWrite
Set LED intensity between 0 and 100.				
Factory setting	70			
Value range	(0 to 100)			
Buzzer Intensity	Index 12003	Subindex 0	IntegerT (8 Bit)	ReadWrite
Set Buzzer intensity between 0 and 100.				
Factory setting	100			
Value range	(0 to 100)			



3 Parameters

User preference color Bank 1	Index 12006	Subindex 0	RecordT (160 Bit)	ReadWrite
Select individual colors (incl. off) for each LED for User Preference Select Bank 1.				
1st LED		Subindex 1	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 1st LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
2nd LED		Subindex 2	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 2nd LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
3rd LED		Subindex 3	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 3rd LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
4th LED		Subindex 4	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 4th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 1	Index 12006	Subindex 0	RecordT (160 Bit)	ReadWrite
5th LED		Subindex 5	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 5th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
6th LED		Subindex 6	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 6th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
7th LED		Subindex 7	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 7th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
8th LED		Subindex 8	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 8th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 1	Index 12006	Subindex 0	RecordT (160 Bit)	ReadWrite
9th LED		Subindex 9	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 9th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
10th LED		Subindex 10	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 10th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
11th LED		Subindex 11	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 11th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
12th LED		Subindex 12	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 12th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 1	Index 12006	Subindex 0	RecordT (160 Bit)	ReadWrite
13th LED		Subindex 13	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 13th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
14th LED		Subindex 14	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 14th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
15th LED		Subindex 15	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 15th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
16th LED		Subindex 16	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 16th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 1	Index 12006	Subindex 0	RecordT (160 Bit)	ReadWrite
17th LED		Subindex 17	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 17th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
18th LED		Subindex 18	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 18th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
19th LED		Subindex 19	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 19th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
20th LED		Subindex 20	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 20th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 2	Index 12007	Subindex 0	RecordT (160 Bit)	ReadWrite
Select individual colors (incl. off) for each LED for User Preference Select Bank 2.				
1st LED		Subindex 1	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 1st LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
2nd LED		Subindex 2	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 2nd LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
3rd LED		Subindex 3	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 3rd LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
4th LED		Subindex 4	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 4th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 2	Index 12007	Subindex 0	RecordT (160 Bit)	ReadWrite
5th LED		Subindex 5	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 5th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
6th LED		Subindex 6	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 6th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
7th LED		Subindex 7	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 7th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
8th LED		Subindex 8	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 8th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 2	Index 12007	Subindex 0	RecordT (160 Bit)	ReadWrite
9th LED		Subindex 9	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 9th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
10th LED		Subindex 10	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 10th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
11th LED		Subindex 11	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 11th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
12th LED		Subindex 12	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 12th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 2	Index 12007	Subindex 0	RecordT (160 Bit)	ReadWrite
13th LED		Subindex 13	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 13th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
14th LED		Subindex 14	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 14th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
15th LED		Subindex 15	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 15th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
16th LED		Subindex 16	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 16th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 2	Index 12007	Subindex 0	RecordT (160 Bit)	ReadWrite
17th LED		Subindex 17	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 17th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
18th LED		Subindex 18	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 18th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
19th LED		Subindex 19	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 19th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
20th LED		Subindex 20	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 20th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 3	Index 12008	Subindex 0	RecordT (160 Bit)	ReadWrite
Select individual colors (incl. off) for each LED for User Preference Select Bank 3.				
1st LED		Subindex 1	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 1st LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
2nd LED		Subindex 2	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 2nd LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
3rd LED		Subindex 3	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 3rd LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
4th LED		Subindex 4	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 4th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 3	Index 12008	Subindex 0	RecordT (160 Bit)	ReadWrite
5th LED		Subindex 5	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 5th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
6th LED		Subindex 6	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 6th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
7th LED		Subindex 7	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 7th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
8th LED		Subindex 8	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 8th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 3	Index 12008	Subindex 0	RecordT (160 Bit)	ReadWrite
9th LED		Subindex 9	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 9th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
10th LED		Subindex 10	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 10th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
11th LED		Subindex 11	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 11th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
12th LED		Subindex 12	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 12th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 3	Index 12008	Subindex 0	RecordT (160 Bit)	ReadWrite
13th LED		Subindex 13	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 13th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
14th LED		Subindex 14	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 14th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
15th LED		Subindex 15	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 15th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
16th LED		Subindex 16	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 16th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

User preference color Bank 3	Index 12008	Subindex 0	RecordT (160 Bit)	ReadWrite
17th LED		Subindex 17	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 17th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
18th LED		Subindex 18	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 18th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
19th LED		Subindex 19	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 19th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
20th LED		Subindex 20	IntegerT (8 Bit)	
Select LED color (incl. off) in User Preference Select for 20th LED.				
Factory setting	0	(Off)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

Select user color	Index 1209	Subindex 0	IntegerT (8 Bit)	ReadWrite
Select User Color (incl. off) which can be used in Signal Light Mode.				
Factory setting	7			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		

Size of segment	Index 12010	Subindex 0	RecordT (40 Bit)	ReadWrite
Determine size of each segment. Total must not exceed 20.				
Segment 1		Subindex 1	IntegerT (8 Bit)	
Size of 1st segment.				
Factory setting	4			
Value range	(0 to 20)			
Segment 2		Subindex 2	IntegerT (8 Bit)	
Size of 2nd segment.				
Factory setting	4			
Value range	(0 to 20)			
Segment 3		Subindex 3	IntegerT (8 Bit)	
Size of 3rd segment.				
Factory setting	4			
Value range	(0 to 20)			
Segment 4		Subindex 4	IntegerT (8 Bit)	
Size of 4th segment.				
Factory setting	4			
Value range	(0 to 20)			
Segment 5		Subindex 5	IntegerT (8 Bit)	
Size of 5th segment.				
Factory setting	4			
Value range	(0 to 20)			

Blank between Segments	Index 12011	Subindex 0	UIntegerT (8 Bit)	ReadWrite
Whether one LED is turned off between different segments.				
Factory setting	0	(Disable)		
Value range	0	(Disable)		
	1	(Enable)		

Direction of flow	Index 12012	Subindex 0	IntegerT (8 Bit)	ReadWrite
Level Meter Mode: Whether LEDs light up from the bottom (0) or from the top (1).				
Factory setting	0	(Bottom up)		
Value range	0	(Bottom up)		
	1	(Top down)		



3 Parameters

Level meter thresholds	Index 12013	Subindex 0	RecordT (160 Bit)	ReadWrite
Thresholds which must be exceeded to turn on corresponding LEDs in Level Meter Mode.				
1st LED		Subindex 1	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 1st LED.				
Factory setting	0			
Value range	(0 to 100)			
Level meter thresholds	Index 12013	Subindex 0	RecordT (160 Bit)	ReadWrite
2nd LED		Subindex 2	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 2nd LED.				
Factory setting	5			
Value range	(0 to 100)			
3rd LED		Subindex 3	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 3rd LED.				
Factory setting	10			
Value range	(0 to 100)			
4th LED		Subindex 4	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 4th LED.				
Factory setting	15			
Value range	(0 to 100)			
5th LED		Subindex 5	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 5th LED.				
Factory setting	20			
Value range	(0 to 100)			
6th LED		Subindex 6	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 6th LED.				
Factory setting	25			
Value range	(0 to 100)			
7th LED		Subindex 7	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 7th LED.				
Factory setting	30			
Value range	(0 to 100)			
8th LED		Subindex 8	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 8th LED.				
Factory setting	35			
Value range	(0 to 100)			
9th LED		Subindex 9	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 9th LED.				
Factory setting	40			
Value range	(0 to 100)			
10th LED		Subindex 10	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 10th LED.				
Factory setting	45			
Value range	(0 to 100)			
11th LED		Subindex 11	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 11th LED.				
Factory setting	50			
Value range	(0 to 100)			
12th LED		Subindex 12	IntegerT (8 Bit)	
Level Meter Mode: Threshold for 12th LED.				
Factory setting	55			
Value range	(0 to 100)			



3 Parameters

13th LED	Subindex 13	IntegerT (8 Bit)		
Level Meter Mode: Threshold for 13th LED.				
Factory setting	60			
Value range	(0 to 100)			
Level meter thresholds	Index 12013	Subindex 0	RecordT (160 Bit)	ReadWrite
14th LED	Subindex 14	IntegerT (8 Bit)		
Level Meter Mode: Threshold for 14th LED.				
Factory setting	65			
Value range	(0 to 100)			
15th LED	Subindex 15	IntegerT (8 Bit)		
Level Meter Mode: Threshold for 15th LED.				
Factory setting	70			
Value range	(0 to 100)			
16th LED	Subindex 16	IntegerT (8 Bit)		
Level Meter Mode: Threshold for 16th LED.				
Factory setting	75			
Value range	(0 to 100)			
17th LED	Subindex 17	IntegerT (8 Bit)		
Level Meter Mode: Threshold for 17th LED.				
Factory setting	80			
Value range	(0 to 100)			
18th LED	Subindex 18	IntegerT (8 Bit)		
Level Meter Mode: Threshold for 18th LED.				
Factory setting	85			
Value range	(0 to 100)			
19th LED	Subindex 19	IntegerT (8 Bit)		
Level Meter Mode: Threshold for 19th LED.				
Factory setting	90			
Value range	(0 to 100)			
20th LED	Subindex 20	IntegerT (8 Bit)		
Level Meter Mode: Threshold for 20th LED.				
Factory setting	95			
Value range	(0 to 100)			

LED Colors	Index 12014	Subindex 0	RecordT (160 Bit)	ReadWrite
Color (incl. off) of each LED in Level Meter Mode.				
1st LED		Subindex 1	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 1st LED.				
Factory setting	13			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

LED Colors	Index 12014	Subindex 0	RecordT (160 Bit)	ReadWrite
2nd LED		Subindex 2	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 2nd LED.				
Factory setting	13			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
3rd LED		Subindex 3	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 3rd LED.				
Factory setting	13			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
4th LED		Subindex 4	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 4th LED.				
Factory setting	13			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
5th LED		Subindex 5	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 5th LED.				
Factory setting	11			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

LED Colors	Index 12014	Subindex 0	RecordT (160 Bit)	ReadWrite
6th LED		Subindex 6	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 6th LED.				
Factory setting	11			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
7th LED		Subindex 7	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 7th LED.				
Factory setting	11			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
8th LED		Subindex 8	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 8th LED.				
Factory setting	11			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
9th LED		Subindex 9	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 9th LED.				
Factory setting	9			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

LED Colors	Index 12014	Subindex 0	RecordT (160 Bit)	ReadWrite
10th LED		Subindex 10	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 10th LED.				
Factory setting	9			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
11th LED		Subindex 11	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 11th LED.				
Factory setting	9			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
12th LED		Subindex 12	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 12th LED.				
Factory setting	9			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
13th LED		Subindex 13	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 13th LED.				
Factory setting	5			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

LED Colors	Index 12014	Subindex 0	RecordT (160 Bit)	ReadWrite
14th LED		Subindex 14	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 14th LED.				
Factory setting	5			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
15th LED		Subindex 15	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 15th LED.				
Factory setting	5			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
16th LED		Subindex 16	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 16th LED.				
Factory setting	5			
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
17th LED		Subindex 17	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 17th LED.				
Factory setting	1	(Red)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		



3 Parameters

LED Colors	Index 12014	Subindex 0	RecordT (160 Bit)	ReadWrite
18th LED		Subindex 18	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 18th LED.				
Factory setting	1	(Red)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
19th LED		Subindex 19	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 19th LED.				
Factory setting	1	(Red)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
20th LED		Subindex 20	IntegerT (8 Bit)	
Color (incl. off) in Level Meter Mode for 20th LED.				
Factory setting	1	(Red)		
Value range	0	(Off)		
	1	(Red)		
	2	(3)		
	4	(5)		
	6	(7)		
	8	(9)		
	10	(11)		
	12	(13)		
	14	(15)		
	16	(Purple)		
	17	(18)		
	19	(20)		
	21	(White)		
LED appearance	Index 12015	Subindex 0	RecordT (160 Bit)	ReadWrite
Select appearance for each LED in Level Meter Mode.				
1st LED		Subindex 1	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 1st LED.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		



3 Parameters

LED appearance	Index 12015	Subindex 0	RecordT (160 Bit)	ReadWrite
2nd LED		Subindex 2	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 2nd LED.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
3rd LED		Subindex 3	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 3rd LED.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
4th LED		Subindex 4	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 4th LED.				
Factory setting	0	(Continuous)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
5th LED		Subindex 5	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 5th LED.				
Factory setting	1	(Blinking slow)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
6th LED		Subindex 6	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 6th LED.				
Factory setting	1	(Blinking slow)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
7th LED		Subindex 7	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 7th LED.				
Factory setting	1	(Blinking slow)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		



3 Parameters

LED appearance	Index 12015	Subindex 0	RecordT (160 Bit)	ReadWrite
8th LED		Subindex 8	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 8th LED.				
Factory setting	1	(Blinking slow)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
9th LED		Subindex 9	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 9th LED.				
Factory setting	3	(Blinking fast)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
10th LED		Subindex 10	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 10th LED.				
Factory setting	3	(Blinking fast)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
11th LED		Subindex 11	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 11th LED.				
Factory setting	3	(Blinking fast)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
12th LED		Subindex 12	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 12th LED.				
Factory setting	3	(Blinking fast)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
13th LED		Subindex 13	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 13th LED.				
Factory setting	5	(Flashing mid)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		



3 Parameters

LED appearance	Index 12015	Subindex 0	RecordT (160 Bit)	ReadWrite
14th LED		Subindex 14	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 14th LED.				
Factory setting	5	(Flashing mid)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
15th LED		Subindex 15	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 15th LED.				
Factory setting	5	(Flashing mid)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
16th LED		Subindex 16	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 16th LED.				
Factory setting	5	(Flashing mid)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
17th LED		Subindex 17	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 17th LED.				
Factory setting	6	(Flashing fast)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
18th LED		Subindex 18	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 18th LED.				
Factory setting	6	(Flashing fast)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
19th LED		Subindex 19	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 19th LED.				
Factory setting	6	(Flashing fast)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		



3 Parameters

LED appearance	Index 12015	Subindex 0	RecordT (160 Bit)	ReadWrite
20th LED		Subindex 20	IntegerT (8 Bit)	
Appearance in Level Meter Mode for 20th LED.				
Factory setting	6	(Flashing fast)		
Value range	0	(Continuous)		
	1	(Blinking slow)		
	2	(Blinking mid)		
	3	(Blinking fast)		
	4	(Flashing slow)		
	5	(Flashing mid)		
	6	(Flashing fast)		
Scope of appearance	Index 12016	Subindex 0	IntegerT (8 Bit)	ReadWrite
Select Scope of Appearance in Level Meter Mode.				
Factory setting	0	(All LEDs)		
Value range	0	(All LEDs)		
	1	(Separate LEDs)		
	2	(Only top LED)		



4 Diagnosis

Device Status	Index 36	Subindex 0	UIntegerT (8 Bit)	ReadOnly
Indicator for the current device condition and diagnosis state.				
Factory setting	0		(Device is OK)	
Value range	0		(Device is OK)	
	1		(Maintenance required)	
	2		(Out of specification)	
	3		(Functional check)	
	4		(Failure)	

Detailed Device Status	Index 37	Subindex 0	OctetStringT (3 Byte) [5]	ReadOnly
List of all currently pending events in the device.				

Active Events	Index 545	Subindex 0	RecordT (32 Bit)	ReadOnly

bitOffset 31	Test Event 2. Device Status = 1 (Maintenance required)
bitOffset 30	Test Event 1. Device Status = 1 (Maintenance required)
bitOffset 29	Flash sequence active. Device Status = 1 (Maintenance required)
bitOffset 1	Parameter error
bitOffset 0	Device hardware fault

Value range	true	appropriate Event pending
	false	appropriate Event inactive

ParaConfig Fault Collection	Index 546	Subindex 0	ArrayT	ReadOnly
Provides information about errors occurred during block transfers.				
Factory setting	0			

Operating Hours	Index 542	Subindex 0	IntegerT (32 Bit)	ReadOnly
Operating Hours since very first start-up				

Internal Temperature	Index 543	Subindex 0	IntegerT (16 Bit)	ReadOnly
No Internal Temperature available. Fixed to 32764.				



5 Events

Code	Device status	PQ*	Class	Name	Description
0x00d	0 (Device is OK)	valid	Notification	No malfunction	
0x5000 20480d	4 (Failure)	invalid	Error	Device hardware fault	Exchange device
0x6320 25376d	3 (Functional check)	invalid	Error	Parameter error	Check datasheet and values
0x8CDB 36059d	1 (Maintenance required)	valid	Warning	Flash sequence active \[Dash] Deactivate flash sequence	Check datasheet and values
0x8DFE 36350d	1 (Maintenance required)	valid	Warning	Test Event 1	Check datasheet and values
0x8DFF 36351d	1 (Maintenance required)	valid	Warning	Test Event 2	Check datasheet and values



Events are raised by the device itself to notify irregular device states.
PQ* = Process data quality.



6 Error types

Code	Name	Description
0x8000 32768d	Device application error - no details	Service was denied by the technology-specific application. No detailed root-cause information is available.
0x8011 32785d	Index not available	Read or write access attempt to a non-existing index.
0x8012 32786d	Subindex not available	Read or write access attempt to a non-existing subindex of an existing index.
0x8020 32800d	Service temporarily not available	Parameter not accessible due to the current state of the technology-specific application.
0x8023 32803d	Access denied	Write access to a read-only parameter or read access to write-only parameter.
0x8030 32816d	Parameter value out of range	Written parameter value is outside of the permitted value range.
0x8033 32819d	Parameter length overrun	Written parameter is longer than specified.
0x8034 32820d	Parameter length underrun	Written parameter is shorter than specified.
0x8035 32821d	Function unavailable	Written command is not supported by the technology-specific application.
0x8036 32822d	Function temporarily unavailable	Written command is unavailable due to the current state of the technology-specific application.
0x8040 32832d	Invalid parameter set	Written single parameter value collides with other existing parameter settings.
0x8041 32833d	Inconsistent parameter set	Parameter set inconsistencies at the end of block parameter transfer. Device plausibility check failed.
0x8082 32898d	Application not ready	Read or write access denied. The technology-specific application is temporarily unavailable.



Error types are used for the ISDU response. Values unequal '0' indicate the cause of a failed ISDU read or write service.