Version V1.3.18.317020 Release date 2016-09-07

Copyright 2016, Builder: 3.1.1.2, Time: 04:50:40

DP

Vendor ID 310 / 0x0136 - Bytes: 01 54 / 0x01 0x36

Device ID 610 / 0x000262 - Bytes: 00 02 98 / 0x00 0x02 0x62

Vendor name ifm electronic gmbh Vendor text www.ifm.com

Vendor URL http://www.ifm.com/ifmgb/web/io-link-download.htm



IO-Link revision V1.1
Bit rate COM2
Minimum cycle time 3.200 ms
SIO mode supported Yes

Features

Block parametrization Yes
Data storage Yes

Device variant

DP2200	Analog Threshold Displ./4-20mA	
		2 • • • 4 3 1 BN
		2 WH OUT2 4 BK OUT1
		3 <u>BU</u> L-

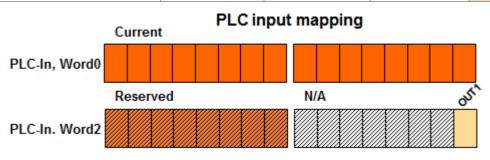


Process data

Total bit length = 32

(Process data input)

Name	Description	Data type	Bit offset	Bit length	Value range	Gradient	Offset	Unit
Current	Actual current value	IntegerT	16	16	3600 to 21000 (32764) NoData (-32760) UL (32760) OL	0.001	0	mA
OUT1	Status depends on [OU1]	BooleanT	0		(false) inactive (true) active			



Name	Description	Index	Subindex	Data type	Length	Access rights	Default	Value range	Gradient	Offset	Unit
Standard Command		2	Sub 0	UIntegerT	8 Bit	wo					
								(130) Restore Factory Settings	,		
								(161) Reset [Hi] and [Lo] memory			
								(162) Reset [Lo] memory			
								(163) Reset [Hi] memory			
								(240) IO-Link 1.1 system test command 240, Event 8DFE appears			
								(241) IO-Link 1.1 system test command 241, Event 8DFE disappears			
								(242) IO-Link 1.1 system test command 242, Event 8DFF appears			
								(243) IO-Link 1.1 system test command 243, Event 8DFF disappears			
								(255) Command without effect, for internal use only			
Device Access Locks		12	Sub 0	RecordT	16 Bit	rw					
Data Storage			bitOffs 1	BooleanT	1 Bit		(false)	(false) Unlocked			
Local User Interface			bitOffs 3	BooleanT	1 Bit		(false)	(true) Locked (false) Unlocked			

Name	Description	Index	Subindex	Data type	Length	Access rights	Default	Value range	Gradient	Offset	Unit
Device Access Lock	(S	12	Sub 0	RecordT	16 Bit	rw					
								(true) Locked			
Vendor Name		16	Sub 0	StringT	max 19 Byte	ro	ifm electronic gmbh				
Vendor Text		17	Sub 0	StringT	max 11 Byte	ro	www.ifm.com				
Product Name		18	Sub 0	StringT	max 6 Byte	ro	DP2200				
Product ID		19	Sub 0	StringT	max 6 Byte	ro	DP2200				
Product Text		20	Sub 0	StringT	max 30 Byte	ro	Analog Threshold Displ./4-20mA				
Serial Number		21	Sub 0	StringT	max 12 Byte	ro					
Hardware Version		22	Sub 0	StringT	max 2 Byte	ro					
Firmware Version		23	Sub 0	StringT	max 5 Byte	ro					
Application Specific		24	Sub 0	StringT	max 32 Byte	rw	***				
Device Status		36	Sub 0	UIntegerT	8 Bit	ro	(0) Device is OK				
								(0) Device is OK			
								(1) Maintenance required			
								(2) Out of specification			
								(3) Functional chec	k		

Name	Description	Index	Subindex	Data type	Length	Access rights	Default	Value range	Gradient	Offset	Unit
Device Status		36	Sub 0	UIntegerT	8 Bit	ro	(0) Device is OK	(4) Failure 5 to 255 (Reserved)			
Detailed Device Status		37	Sub 0		21 Byte	ro	00 00 00 h				
dAP	Damping of the measured signal	510	Sub 0	UIntegerT	16 Bit	rw	60	0 to 4000	0.001	0	s
BitCoded_ActiveEvents	Bit mask for current pending events	545	Sub 0	RecordT	32 Bit	ro					
Bit_31	Bit 31 indicates the assigned pending event		bitOffs 31	BooleanT	1 Bit		(0) noEv	(0) noEv (1) 0x8DFF			
Bit_30	Bit 30 indicates the assigned pending event		bitOffs 30	BooleanT	1 Bit		(0) noEv	(0) noEv (1) 0x8DFE			
Bit_10	Bit 10 indicates the assigned pending event		bitOffs 10	BooleanT	1 Bit		(0) noEv	(0) noEv (1) 0x8CBA			
Bit_9	Bit 9 indicates the assigned pending event		bitOffs 9	BooleanT	1 Bit		(0) noEv	(0) noEv (1) 0x8C30			
Bit_8	Bit 8 indicates the assigned pending event		bitOffs 8	BooleanT	1 Bit		(0) noEv	(0) noEv (1) 0x8C10			
Bit_1	Bit 1 indicates the assigned pending event		bitOffs 1	BooleanT	1 Bit		(0) noEv	(0) noEv (1) 0x6320			
Bit_0	Bit 0 indicates the assigned pending event		bitOffs 0	BooleanT	1 Bit		(0) noEv	(0) noEv (1) 0x5000			
ParaConfigFaultCollection	Displays the wrongly set parameters	546	Sub 0			ro	0				
Loc	[Loc] locks the local user interface to prevent unintentional changes, [Loc] is resettable at the device	550	Sub 0	UIntegerT	8 Bit	rw	(1) uLoc				
								(0) Loc			

Name	Description	Index	Subindex	Data type	Length	Access rights	Default	Value range	Gradient	Offset	Unit
Loc	[Loc] locks the local user interface to prevent unintentional changes, [Loc] is resettable at the device	550	Sub 0	UIntegerT	8 Bit	rw	(1) uLoc				
								(1) uLoc			
diS	Display settings	552	Sub 0	RecordT	16 Bit	rw					
Display On / OFF			bitOffs 7	BooleanT	1 Bit		(false) On	(false) On (true) OFF			
Update rate			bitOffs 0	UIntegerT	6 Bit		(2) d2 / medium	(1) d1 / fast			
								(2) d2 / medium			
								(4) d3 / slow			
coLr	Assignment of the display colours 'red' and 'green' within the measuring range	554	Sub 0	UIntegerT	8 Bit	rw	(2) rEd / Display colour red (independent of the measured value)				
								(2) rEd / Display colour red (independent of the measured value)			
								(3) GrEn / Display colour green (independent of the measured value)			
								(4) r1ou / Display colour red when OUT1 switches			
								(5) G1ou / Display colour green when OUT1 switches			
								(10) r-cF / Display colour red when the measured value is			

Name	Description	Index	Subindex	Data type	Length	Access rights	Default	Value range	Gradient	Offset	Unit
coLr	Assignment of the display colours 'red' and 'green' within the measuring range	554	Sub 0	UIntegerT	8 Bit	rw	(2) rEd / Display colour red (independent of the measured value)	between the freely definable limit values [cFL] and [cFH] (11) G-cF / Display colour green when the measured value is between the freely definable limit values [cFL] and [cFH]			
cFL	Lower value for colour change. Parameter only active after selection of a freely definable colour window in the coLr parameter: [r-cF] or [G-cF]. The setting range corresponds to the measuring range and its maximum limit is [cFH]	555	Sub 0	IntegerT	16 Bit	rw	4000	4000 to 19900	0.001	0	mA
cFH	Upper value for colour change. Parameter only active after selection of a freely definable colour window in the coLr parameter: [r-cF] or [G-cF]. The setting range corresponds to the measuring range and its minimum limit is [cFL]		Sub 0	IntegerT	16 Bit	rw	20000	4100 to 20000	0.001	0	mA
Hi	Maximum memory value	560	Sub 0	IntegerT	16 Bit	ro	0	3600 to 21000	0.001	0	mA

Name	Description	Index	Subindex	Data type	Length	Access rights	Default	Value range	Gradient	Offset	Unit
Hi	Maximum memory value	560	Sub 0	IntegerT	16 Bit	ro	0	(32764) NoData (-32760) UL (32760) OL	0.001	0	mA
Lo	Minimum memory value	561	Sub 0	IntegerT	16 Bit	ro	0	3600 to 21000 (32764) NoData (-32760) UL (32760) OL	0.001	0	mA
ou1	Output configuration [OUT 1]	580	Sub 0	UIntegerT	8 Bit	rw	(3) Hno / Hysteresis fct normally open	(3) Hno / Hysteresis fct normally open (4) Hnc / Hysteresis fct normally closed (5) Fno / Window fct normally open (6) Fnc / Window fct normally closed			
dS1	Switching delay for [OUT 1]	581	Sub 0	UIntegerT	16 Bit	rw	0	0 to 500	0.1	0	s
dr1	Reset delay for [OUT 1]	582	Sub 0	UIntegerT	16 Bit	rw	0	0 to 500	0.1	0	s
SP_FH1	Switch point 1, [SP1] must be greater than [rP1]. Please take into account the current [rP1] value. [SP1] will be refused if below [rP1]. [SP] = [FH] and [rP] = [FL] if [OU1] = Fno, Fnc		Sub 0	IntegerT	16 Bit	rw	6000	4100 to 20000	0.001	0	mA

Name	Description	Index	Subindex	Data type	Length	Access rights	Default	Value range	Gradient	Offset	Unit
rP_FL1	Reset point 1, [rP1] must be smaller than [SP1]. Please take into account the current [SP1] value.I[rP1] will be refused if above [SP1]. [rP] = [FL] and [SP] = [FH] if [OU1] = Fno, Fnc	584	Sub 0	IntegerT	16 Bit	rw	5000	4000 to 19900	0.001	0	mA
ScAL	Setting of the decimal point	900	Sub 0	UIntegerT	8 Bit	rw	(0) OFF	(0) OFF (1) cccc (2) ccc.c (3) cc.cc (4) c.ccc			
A.Trm	Activation of the internal termination of the measurement current circuit. If OUT2 is not connected, this internal terminating resistor should be activated		Sub 0	UIntegerT	8 Bit	rw	(1) On	(0) OFF (1) On			
C.ASP	Customer-specific start point. This value is assigned to the lower value of the analogue input. The parameter is only active if ScAL is not set to [OFF]	910	Sub 0	IntegerT	16 Bit	rw	400	-746 to 9745	1	0	
C.AEP	Customer-specific end point. This value is assigned to the upper value of the analogue input. The parameter is only	911	Sub 0	IntegerT	16 Bit	rw	2000	-366 to 9366	1	0	

Name	Description	Index	Subindex	Data type	Length	Access rights	Default	Value range	Gradient	Offset	Unit
	active if ScAL is not set to [OFF]										
C.uni	Customer-specific unit with max. 4 characters. Function available only via IO-Link.	922	Sub 0	StringT	4	rw	mA				

Events

Code	Name	Туре	Description
20480 d / 50 00 h	Device hardware fault	Error	Device Exchange
25376 d / 63 20 h	Parameter error	Error	Check data sheet and values
35856 d / 8C 10 h	Process variable range over-run	Warning	Process data uncertain. Note: This Event will not be transmitted via IO-Link Event mechanism. It is only available by reading Index 37 (DetailedDeviceStatus) oder 545 (BitCoded_ActiveEvents)
35888 d / 8C 30 h	Process variable range under-run	Warning	Process data uncertain. Note: This Event will not be transmitted via IO-Link Event mechanism. It is only available by reading Index 37 (DetailedDeviceStatus) oder 545 (BitCoded_ActiveEvents)
36026 d / 8C BA h	Probe dropped	Error	Solve problem
36350 d / 8D FE h	Test Event 1	Warning	Event appears by setting index 2 to value 240, Event disappears by setting index 2 to value 241
36351 d / 8D FF h	Test Event 2	Warning	Event appears by setting index 2 to value 242, Event disappears by setting index 2 to value 243

Error types

Error code	Name	Description
32768 d / 80 00 h	Device application error - no details	Service has been refused by the device application and no detailed information of the incident is available
32785 d / 80 11 h	Index not available	Access occurs to a not existing index
32786 d / 80 12 h	Subindex not available	Access occurs to a not existing subindex
32800 d / 80 20 h	Service temporarily not available	Parameter is not accessible due to the current state of the device application
32803 d / 80 23 h	Access denied	Write access on a read-only parameter
32816 d / 80 30 h	Parameter value out of range	Written parameter value is outside its permitted value range

Error types

Error code	Name	Description
32819 d / 80 33 h	Parameter length overrun	Written parameter length is above its predefined length
32820 d / 80 34 h	Parameter length underrun	Written parameter length is below its predefined length
32821 d / 80 35 h	Function not available	Written command is not supported by the device application
32822 d / 80 36 h	Function temporarily unavailable	Written command is not available due to the current state of the device application
32832 d / 80 40 h	Invalid parameter set	Written single parameter collides with other actual parameter settings
32833 d / 80 41 h	Inconsistent parameter set	Parameter inconsistencies were found at the end of block parameter transfer, device plausibility check failed
32898 d / 80 82 h	Application not ready	Read or write service is refused due to a temporarily unavailable application