Version: V1.3.3.406671 Release Date: 2015-07-20

Copyright 2015, Builder: 2.5.1.2, Time: 04:08:24

LR

Vendor ID	310 / 0x0136 - Bytes: 01 54 / 0x01 0x36
Vendor Name	ifm electronic gmbh
Vendor Text	www.ifm.com
Vendor URL	http://www.ifm.com/ifmgb/web/io-link-download.htm
Device ID	478 / 0x0001DE - Bytes: 00 01 222 / 0x00 0x01 0xDE

ifm electronic

Communication

IO-Link Revision	V1.1
Bitrate	COM2
Minimum Cycle Time	2.300 ms
SIO Mode Supported	Yes

Features

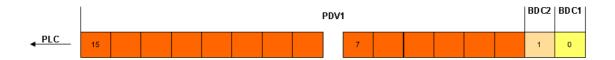|	
Block parametrization	Yes
Data storage	Yes

Device Variant

LR2750	Electronic level sensor, 10...1970 mm, IO-Link, cULus, EHEDG, FDA, KTW, Aseptoflex-Vario G1 A		

Process Data　　　Total BitLength = 16
Process Data Input

Name	Description	Datatype	Bitoffset	Bitlength	Value Range	Gradient	Offset	Unit
Level	Current level	IntegerT	2	14	**10 to 1970** (8189) FULL (0) EPTY (8188) SEnS (8190) Err	1	0	mm
OUT2	Status depends on [OU2]	BooleanT	1		false inactive true active			
OUT1	Status depends on [OU1]	BooleanT	0		false inactive true active			

PDV1　　　　　　　　　　BDC2 | BDC1

PLC ←　| 15 | | | | | | | |　| 7 | | | | | | 1 | 0 |

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Standard Command		**2**	**Sub 0**	UIntegerT	**8 Bit**	**wo**		(130) Restore Factory Settings (176) Start simulation (177) Stop simulation (208) TEACH_TANK_REF (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 true Locked			
Local User Interface			bitOffs 3	BooleanT	1 Bit		(false)	false Unlocked true Locked			

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Vendor Name		16	Sub 0		max 19 Byte	ro	ifm electronic gmbh				
Vendor Text		17	Sub 0		max 11 Byte	ro	www.ifm.com				
Product Name		18	Sub 0		max 6 Byte	ro	LR2750				
Product ID		19	Sub 0		max 6 Byte	ro	LR2750				
Product Text		20	Sub 0		max 23 Byte	ro	Electronic level sensor				
Serial Number		21	Sub 0		max 12 Byte	ro					
Hardware Version		22	Sub 0		max 2 Byte	ro					
Firmware Version		23	Sub 0		max 5 Byte	ro					
Application Specific Tag		24	Sub 0		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 check (4) Failure 5 to 255 (Reserved)			

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Detailed Device Status		37	Sub 0		33 Byte	ro	00 00 00 h				
P-n	Output polarity for the switching outputs	500	Sub 0	UIntegerT	8 Bit	rw	(0) PnP	(0) PnP (1) nPn			
dAP	Damping of the measured signal	510	Sub 0	UIntegerT	16 Bit	rw	0	0 to 600	0.1	0	s
dFo	Delay time of outputs after fault	530	Sub 0	UIntegerT	16 Bit	rw	30	0 to 100	0.1	0	s
FOU1	[OUT 1] behaviour in case of fault	531	Sub 0	UIntegerT	8 Bit	rw	(4) OFF	(2) On (4) OFF			
FOU2	[OUT 2] behaviour in case of fault	532	Sub 0	UIntegerT	8 Bit	rw	(4) OFF	(2) On (4) OFF			
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 (1) uLoc			
uni	Selection of unit on the sensor display	551	Sub 0	UIntegerT	8 Bit	rw	(0) mm	(0) mm (1) inch			

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
SELd	**Selection of measurement on the sensor display**	**553**	**Sub 0**	RecordT	**16 Bit**	**rw**					
Display On / OFF			bitOffs 15	BooleanT	1 Bit		(false) On	(false) On (true) OFF			
Displayed measurement			bitOffs 0	UIntegerT	15 Bit		(1) L	1 L 2 %			
S.On	**Simulation state**	**570**	**Sub 0**	UIntegerT	**8 Bit**	**ro**	**(0) OFF**	(0) OFF (1) On			
S.Tim	**Simulation duration**	**571**	**Sub 0**	UIntegerT	**8 Bit**	**rw**	**(2) 3 min**	(0) 1 min (1) 2 min (2) 3 min (3) 4 min (4) 5 min (5) 10 min (6) 15 min (7) 20 min (8) 30 min (9) 45 min (10) 60 min			

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
S.LvL	Simulation of level. The maximum [S.LvL] can be [LEnG] minus 30 mm	572	Sub 0	IntegerT	16 Bit	rw	(75)	10 to 1970 (8189) FULL (8188) SEnS (8190) Err (0) EPTY	1	0	mm
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 600	0.1	0	s
dr1	Reset delay for [OUT 1]	582	Sub 0	UIntegerT	16 Bit	rw	0	0 to 600	0.1	0	s
SP_FH1	Switch point 1 from bottom edge of probe, [SP1] must be greater than [rP1]. Please take into account the current [rP1] value. [SP1] will be refused if below [rP1]. The maximum [SP1] can be [LEnG] minus 30 mm	583	Sub 0	IntegerT	16 Bit	rw	60	15 to 1970	1	0	mm

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
rP_FL1	Reset point 1 from bottom edge of probe, [rP1] must be smaller than [SP1]. Please take into account the current [SP1] value. [rP1] will be refused if above [SP1]. The maximum [rP1] can be [LEnG] minus 35 mm	584	Sub 0	IntegerT	16 Bit	rw	55	10 to 1965	1	0	mm
ou2	Output configuration [OUT 2]	590	Sub 0	UIntegerT	8 Bit	rw	(1) I / Analog signal 4…20 mA	(3) Hno / Hysteresis fct normally open (4) Hnc / Hysteresis fct normally closed (5) Fno / Window fct normally open (6) Fnc / Window fct normally closed (1) I / Analog signal 4…20 mA (10) InEG / Analog signal 20...4 mA			
dS2	Switching delay for [OUT 2]	591	Sub 0	UIntegerT	16 Bit	rw	0	0 to 600	0.1	0	s
dr2	Reset delay for [OUT 2]	592	Sub 0	UIntegerT	16 Bit	rw	0	0 to 600	0.1	0	s
SP_FH2	Switch point 2 from bottom edge of probe, [SP2] must be greater than [rP2]. Please take into account the current [rP2] value. [SP2] will be refused if below [rP2]. The maximum [SP2] can be [LEnG] minus 30 mm	593	Sub 0	IntegerT	16 Bit	rw	120	15 to 1970	1	0	mm

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
rP_FL2	Reset point 2 from bottom edge of probe, [rP2] must be smaller than [SP2]. Please take into account the current [SP2] value. [rP2] will be refused if above [SP2]. The maximum [rP2] can be [LEnG] minus 35 mm	594	Sub 0	IntegerT	16 Bit	rw	115	10 to 1965	1	0	mm
ASP2	Analogue start point 2 from the lower edge of the probe, [ASP2] must be at least 20% smaller than [AEP2]. For further information please see the operating instructions.	630	Sub 0	IntegerT	16 Bit	rw	0	0 to 1576	1	0	mm
AEP2	Analogue end point 2 from the lower edge of the probe, [AEP2] must be at least 20% greater than [ASP2].[AEP2] can be maximum [LEnG] minus 30 mm. For further information please see the operating instructions.	631	Sub 0	IntegerT	16 Bit	rw	120	24 to 1970	1	0	mm
MEdI	Medium selection	682	Sub 0	UIntegerT	8 Bit	rw	(1) MId	(0) HIGH (1) MId			
LEnG	Entering the probe length	1600	Sub 0	IntegerT	16 Bit	rw	150	150 to 2000	1	0	mm
tREF	Tank reference accomplished	1603	Sub 0	IntegerT	16 Bit	ro	(0) nonE	10 to 1750 (0) nonE	1	0	mm

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
RefDist	Distance measured from process connector to be taught by command TEACH_TANK_REF. [RefDist] shall always be smaller then [LEnG] minus 250 mm	1604	Sub 0	IntegerT	16 Bit	rw	10	10 to 1750	1	0	mm

Events

Code	Name	Type	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
25377 d / 63 21 h	Parameter missing	Error	Check data sheet
30480 d / 77 10 h	Short circuit	Error	Check installation
35856 d / 8C 10 h	Process variable range over-run	Warning	Process data uncertain
35888 d / 8C 30 h	Process variable range under-run	Warning	Process data uncertain
35841 d / 8C 01 h	Simulation active	Warning	Check operational mode
36026 d / 8C BA h	Probe dropped	Error	Solve problem
36028 d / 8C BC h	No reflexion signal	Error	Probe wrongly adjusted
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