

Version: V1.8

Release Date: 2012-12-03

Copyright 2012, ifm electronic gmbh

TP

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_down.htm
Device ID 140 / 0x00008C - Bytes: 00 00 140 / 0x00 0x00 0x8C





Communication

IO-Link Revision V1.0
Minimum Cycle Time 2.300 ms

SIO Mode Supported Yes

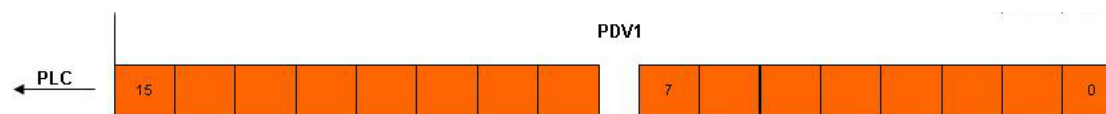
Device Variant

TP3231	Control monitor for temperature measurement, -50 to 150 °C		
--------	--	---	--

Process Data
(IO-Link Prozessdata)

Total BitLength = 16

Name	Description	Datatype	Bitoffset	Bitlength	Value Range	Gradient	Offset	Unit	Single Value
Temperature	Current system temperature (Fig. PDV1). The real temperature shall be calculated as follows: $T_{real} = PDV1 * Gradient + Offset$.	IntegerT	0	16	-500 to 1500	0.1	0	°C	



Variables

Name	Description	Index	Subindex bitOffset	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit	Single Value
Vendor Name		16	Sub 0		ro	ifm electronic GmbH					
Vendor Text		17	Sub 0		ro	www.ifm.com					
Product Name		18	Sub 0		ro	TP3231					
Product ID		19	Sub 0		ro	TP3231					
Serial Number		21	Sub 0		ro	-					
Hardware Revision		22	Sub 0		ro	-					
Firmware Revision		23	Sub 0		ro	-					
Application Specific Name		24	Sub 0	30 Byte	rw						
OU2	Output configuration OUT 2	65	Sub 0	16 Bit	rw	1					(1) I (512) INeg
ASP	Analog Start Point. Measured value at which 4 mA is provided (20 mA if [OU2] = [InEG]). The distance of ASP - AEP shall be at least 25% of the measurement range. ASP shall be smaller than AEP.	66	Sub 0	16 Bit	rw	-500	-500 to 2950	0.1	0	°C	
AEP	Analog End Point. Measured value at which 20 mA is provided (4 mA if [OU2] = [InEG]). The distance of ASP - AEP shall be at least 25% of the measurement range. AEP shall be greater than ASP.	67	Sub 0	16 Bit	rw	1500	-450 to 3000	0.1	0	°C	

Variables

Name	Description	Index	Subindex bitOffset	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit	Single Value
COF	Zeropoint calibration (Calibration offset)	68	Sub 0	16 Bit	rw	0	-100 to 100	0.1	0	°C	
FOU2	Output response in case of fault	69	Sub 0	8 Bit	rw	0					(0) OFF, analog 3,5 mA (1) On, analog 21,0 mA

Events

Code	Name	Type	Mode	Description
6160	Para	Error	AppearDisappear	Parameterization error
35856	OL	Warning	AppearDisappear	Processvalue exceeds measurement range
35888	UL	Warning	AppearDisappear	Processvalue below measurement range
8001	Para OU2	Error	AppearDisappear	Parameterization error OU2
8002	Para ASP	Error	AppearDisappear	Parameterization error ASP
8003	Para AEP	Error	AppearDisappear	Parameterization error AEP
8004	Para COF	Error	AppearDisappear	Parameterization error COF
8005	Para FOU2	Error	AppearDisappear	Parameterization error FOU2
8006	Para QUANT	Error	AppearDisappear	Parameterization error QUANT