

**DW25310P**

Hersteller ID 780 / 0x4B6  
 Geräte ID 1668609 / 0x197601  
 Herstellername ipf electronic gmbh  
 Hersteller URL <http://www.ipf.de>

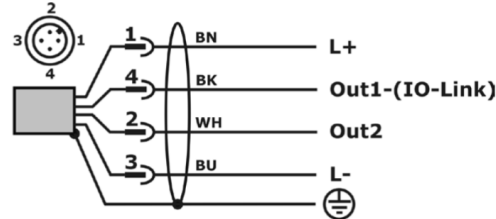

**IPF** ELECTRONIC**Kommunikation**

IO-Link Revision V1.1  
 Bitrate Com2  
 Minimale Zykluszeit 2,3ms  
 SIO Mode unterstützt Ja

**Features**

Blockparametrierung Ja  
 Datenhaltung Ja

**Gerätevariante**

DW25310P	Elektronischer Drucksensor 0.000 bar ... 0.250 bar		
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Prozessdaten

Name	Beschreibung	Datentyp	Bitlänge	Wertebereich	Faktor	Offset	Einheit
Druck	Aktueller Druck	IntegerT	14	0 .. 2500	0.0001	0	bar
				(-0.0000bar – 0.2500bar)			
Schaltzustand [Out2]	Status Schaltausgang [O2]	BooleanT		(false) inaktiv			
				(true) aktiv			
Schaltzustand [Out1]	Status Schaltausgang [O1]	BooleanT		(false) inaktiv			
				(true) aktiv			

PLC Input Mapping

	Druck								Out2				Out1	
PLC-In Word0	15						8	7				2	1	0

## Variables

Name	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Standardkommando										
	2	Sub 0	UIntegerT	8Bit	wo		(128) Device Reset  (130) Auslieferungszustand Wiederherstellen			

Gerätezugriffssperren										
	12	Sub 0	RecordT	16Bit	rw					
Parameter		bitOffs 0	BooleanT	1 Bit		(false)	(false) Offen (true) Gesperrt			
Data Storage		bitOffs 1	BooleanT	1 Bit		(false)	(false) Offen (true) Gesperrt			

Vendor Name										
	16	Sub 0	StringT	64 Byte	ro	IPF ELECTRONIC GMBH				

Vendor Text										
	17	Sub 0	StringT	64 Byte	ro	www.ipf.de				

Product Name										
	18	Sub 0	StringT	64 Byte	ro	DW25310P				

Product ID										
	19	Sub 0	StringT	64 Byte	ro	DW25310P				

Product Text										
	20	Sub 0	StringT	64 Byte	ro	Electronic pressure sensor				

## Variables

Name	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
SerialNumber										
	21	Sub 0	StringT	16 Byte	ro	0000000000				
Hardware Revision										
	22	Sub 0	StringT	64 Byte	ro	HW-V 001				
Firmware Revision										
	23	Sub 0	StringT	64 Byte	ro	FW-V 1.6.0				
Application Specific										
	24	Sub 0	StringT	24 Byte	rw	DW25310P 0				
Device Status										
	36	Sub 0	UIntegerT	8 Bit	ro	0) Device is operating properly	0) Device is operating properly 1) Maintenance-Required 2) Out-of-Specification 3) Functional-Check 4) Failure 5-255 (Reserved)			
Detailed Device Status										
	37	Sub 0	UIntegerT	6 Bytes	ro	0x00 0x00 0x00	All octets 0x00: no Error/ Warning Octet 1: EventQualifier Octet 2,3: EventCode			

## Variables

Name	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
O1_Conf	Output 1; Configuration									
	64	Sub 0	RecordT	8 Bit	rw					
Polarity		bitOffs 0	booleanT	1 Bit		(false) NO	(false) NO (true) NC			
Operation Mode		bitOffs 2	UIntegerT	2 Bit		(0) PP	(0) PP			
Switch Mode		bitOffs 4	UIntegerT	3 Bit		(1) Single Point Mode	(0) deactivated (1) Single Point Mode (2) Window Mode (3) Two Point Mode (4) Show Error			

O1_SP	Output 1; SetPoint									
	65	Sub 0	Float32T		rw	0.0625	0.0000 to 0.2500	1	0	Bar

O1_RP	Output 1; ResetPoint									
	66	Sub 0	Float32T		rw	0.0575	0.0000 to 0.2500	1	0	Bar

O1_HY	Output 1; Hysteresis									
	67	Sub 0	Float32T		rw	0.0050	0.0000 to 0.0500	1	0	Bar

O1_dS	Output 1; Set Delay									
	68	Sub 0	UIntegerT	16 Bit	rw	0	0 to 5000	0.01	0	s

O1_dR	Output 1; Reset Delay									
	69	Sub 0	UIntegerT	16 Bit	rw	0	0 to 5000	0.01	0	s

## Variables

Name	Index	Subindex bitOffset	Data Type	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
O1_Conf	Output 2; Configuration									
	70	Sub 0	RecordT	8 Bit	rw					
Polarity		bitOffs 0	booleanT	1 Bit		(false) NO	(false) NO (true) NC			
Operation Mode		bitOffs 2	UIntegerT	2 Bit		(0) PP	(0) PP (1) NPN (2) PNP (3) Analog Out			
Switch Mode		bitOffs 4	UIntegerT	3 Bit		(1) Single Point Mode	(0) deactivated (1) Single Point Mode (2) Window Mode (3) Two Point Mode (4) Show Error			

O2_SP	Output 2; SetPoint									
	71	Sub 0	Float32T		rw	0.1875	0.0000 to 0.2500	1	0	Bar

O2_RP	Output 2; ResetPoint									
	72	Sub 0	Float32T		rw	0.1825	0.0000 to 0.2500	1	0	Bar

O2_HY	Output 2; Hysteresis									
	73	Sub 0	Float32T		rw	0.0050	0.0000 to 0.0500	1	0	Bar

O2_dS	Output 2; Set Delay									
	74	Sub 0	UIntegerT	16 Bit	rw	0	0 to 5000	0.01	0	s

O2_dR	Output 2; Reset Delay									
	75	Sub 0	UIntegerT	16 Bit	rw	0	0 to 5000	0.01	0	s

## Variables

Name	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Unit	Unit selector for menu									
	101	Sub 0	UIntegerT	8 Bit	rw	(7) Bar	(8) mBar (7) Bar (12) kPa (6) PSI			

TeachZero	Set zero offset									
	102	Sub 0	Float32T		rw	0	0.0125 to 0.2625	1	0	Bar

Damp1	Damping									
	104	Sub 0	UIntegerT	16 Bit	rw	2 (0.02s)	0 to 12000	0.01	0	sec

Peak_max	Max. Peak value									
	106	Sub 0	Float32T		ro	0	0.0000 to 0.2500	1	0	Bar

Peak_min	Min. Peak value									
	107	Sub 0	Float32T		ro	0	0.0000 to 0.2500	1	0	Bar

## Variables

Name	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Ana_Min_In	Analog Ausgang Kennlinie Minimum Input (Messwert)									
	108	Sub 0	Float32T		rw	-1.000	0.0000 to 0.2500	1	0	Bar
Ana_Min_Out	Analog Ausgang Kennlinie Minimum Output (% von 0..20mA)									
	109	Sub 0	Float32T		rw	4	0 to 20	1	0	mA
Ana_Max_In	Analog Ausgang Kennlinie Maximum Input (Messwert)									
	110	Sub 0	Float32T		rw	5.000	0.0000 to 0.2500	1	0	Bar
Ana_Max_Out	Analog Ausgang Kennlinie Maximum Output (% von 0..20mA)									
	111	Sub 0	Float32T		rw	20	0 to 20	1	0	mA
Ana_Mode	Analog Output Modus									
	112	Sub 0	UIntegerT	8 Bit	rw	(0) 0 – 20 mA	(0) 0 – 20 mA (1) 0 – 20 mA, Error 22mA (2) 4 – 20 mA (3) 4 – 20 mA, Error 3.6mA (4) 4 – 20 mA, Error 22mA (5) 20 – 0 mA (6) 20 – 0 mA, Error 22mA (7) 20 – 4 mA (8) 20 – 4 mA, Error 3.6mA (9) 20 – 4 mA, Error 22mA			
Ana_Buttons	Set Analog Min/Max Inpoint to current measurement value									
	113	Sub 0	UIntegerT	8 Bit	wo		(0) Set Analog Minimum (1) Set Analog Maximum			



## Variables

Name	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Measurement	Readout Measurement Data									
	114	Sub 0	RecordT	352 Bit	ro					
Input 1		Sub 7 bitOffs 128	Float32T			0.000	Float32T	1	0	Bar
Analog out		Sub 10 bitOffs 288	Float32T			0.000	Float32T	1	0	mA

ReportedLimit_Lower	Lower Reported Sensor Limit									
	120	Sub 0	Float32T		ro	-1.000	Float32T	1	0	Bar

ReportedLimit_Upper	Upper Reported Sensor Limit									
	121	Sub 0	Float32T		ro	5.000	Float32T	1	0	Bar

User_Buttons	Menu Buttons									
	123	Sub 0	UIntegerT	8 Bit	wo		(1) Reset min. Peak (2) Reset max. Peak (3) Reset min. and max. Peak (4) Teach Zero (uses current measurement)			

User_DAC_mA	Set Analog Out current (Test 0..22mA) Temporär, wird nicht gespeichert									
	124	Sub 0	Float32T		rw	0	0..22 (0 = disable)	1	0	mA

Errorcounter										
	126	Sub 0	RecordT	64 Bit	ro					
Transducer limit underrun		bitOffs 48	UInteger	16 Bit		0	0..65535			
Transducer limit overrun		bitOffs 32	UInteger	16 Bit		0	0..65535			

## Events

Code	Name	Type	Mode	Beschreibung
20480	Device hardware fault	Error	Appear/Disappear	Device hardware fault
35856	Process variable range over-run	Warning	Appear/Disappear	ADC-Werte über gültigem Messbereich
35888	Process variable range under-run	Warning	Appear/Disappear	ADC-Werte unter gültigem Messbereich
36346	Analog Out Error Low	Warning	Appear/Disappear	Analog error output set to 22mA
36347	Analog Out Error High	Warning	Appear/Disappear	Analog error output set to 3,8mA (4-20mA)
36348	Sensor Limit under-run	Warning	Appear/Disappear	Sensor valid range underrun
36349	Sensor Limit over-run	Warning	Appear/Disappear	Sensor valid range overrun
36350	Event A	Warning	Appear/Disappear	Test Event A
36351	Event B	Warning	Appear/Disappear	Test Event B