



IO-Link setting file (IODD) can be downloaded from our website (<https://panasonic.net/id/pidsx/global>).

1 PHYSICAL LAYER

Model No.	DP-101ZL3-M-P-□	DP-102ZL3-M-P-□
Baud rate	COM3(230.4kbps)	
Minimum cycle time	1ms	
Process data length	4byte	
Vendor ID	834	
Device ID	0x060000	0x060001

3 SERVICE DATA(SD)

Index	Sub index	Name	R/W	Back up target	Format	Data length	Default data	Description of settings
2	0	SystemCommand	W		UInteger	1byte		0x82 : Reset setting 0xA0 : Zero-adjustment setting 0xA1 : Remote zero-adjustment setting 0xA2 : Zero-adjust setting unset 0xA3 : Auto-reference setting
12	0	Device Access Locks	R/W	○	Record	2byte	0	Local user interface lock 0 : Unlock , 8 : Lock Main unit : Linked with key lock
16	0	Vendor Name	R		String	63byte		
17	0	Vendor Text	R		String	63byte		
18	0	Product Name	R		String	63byte		
19	0	Product ID	R		String	63byte		
20	0	Product Text	R		String	63byte		
21	0	Serial Number	R		String	15byte		
22	0	Hardware Version	R		String	3byte		
23	0	Firmware Version	R		String	4byte		
24	0	Application Specific Tag	R/W	○	String	32byte		
37	0	Detailed Device Status	R		UInteger	12byte		
40	0	ProcessDataInput	R		UInteger	4byte		
60	1	Threshold Value Setting 1	R/W	○	Integer	2byte	DP-101□: -500 (-50.0) DP-102□: 0500 (0.500)	Threshold value of EASY mode Low-side threshold value of window comparator mode / hysteresis mode DP101□: -1010 to 1010 0xFC0E to 0x03F2 DP102□: -101 to 1010 0xFF9B to 0x03F2
	2	Threshold Value Setting 2	R/W	○	Integer	2byte	DP-101□: -495 (-49.5) DP-102□: 0505 (0.505)	High-side threshold value of window comparator mode / hysteresis mode DP101□: -1010 to 1010 0xFC0E to 0x03F2 DP102□: -101 to 1010 0xFF9B to 0x03F2
61	1	Output Operation Setting of C/Q Output	R/W	○	UInteger	1byte	DP-101□:1 DP-102□:0	0 : N.O. 1 : N.C.
	2	Sensing Output Setting of C/Q Output	R/W	○	UInteger	1byte	0x01	0x01 : EASY mode 0x02 : Hysteresis mode 0x03 : Window comparator mode
	3	Hysteresis Setting of C/Q Output	R/W	○	Integer	2byte	3	Hysteresis value 8-step setting : 1 to 8
63	1	Output Operation Setting of DO Output	R	○	UInteger	1byte		Linkage with Index61_1
	2	Sensing Output Setting of DO Output	R	○	UInteger	1byte		Linkage with Index61_2
	3	Hysteresis Setting of DO Output	R	○	Integer	2byte		Linkage with Index61_3
66	0	Response Time	R/W	○	UInteger	1byte	1	1 : 2.5ms 6 : 100ms 2 : 5ms 7 : 250ms 3 : 10ms 8 : 500ms 4 : 25ms 9 : 1,000ms 5 : 50ms A : 5,000ms
80	0	ECO Setting	R/W	○	UInteger	1byte	0	0 : OFF 1 : STD 3 : FULL

2 PROCESS DATA(PD)

	bit							
	7	6	5	4	3	2	1	0
PD0	Upper byte of pressure data							
PD1	Lower byte of pressure data							
PD2	Scale DP-101ZL3-M-P-□ : -1 (0.1kPa) DP-102ZL3-M-P-□ : -3 (0.001MPa) 0 (1kPa)							

PD3		Assignment	Remarks
bit			
7	6	Control Output (DO)	0 : OFF 1 : ON
	5		Fixed 0
	4		Fixed 0
	3		Fixed 0
6	5	Control Output (DO)	0 : OFF 1 : ON
	4		Fixed 0
	3		Fixed 0
	2		Fixed 0
5	4	Control Output (DO)	0 : OFF 1 : ON
	3		Fixed 0
	2		Fixed 0
	1		Fixed 0
4	3	Control Output (DO)	0 : OFF 1 : ON
	2		Fixed 0
	1		Fixed 0
	0		Fixed 0
3	2	Control Output (DO)	0 : OFF 1 : ON
	1		Fixed 0
	0		Fixed 0
			Fixed 0
2	1	Control Output (DO)	0 : OFF 1 : ON
	0		Fixed 0
			Fixed 0
			Fixed 0
1	0	Control Output (DO)	0 : Normal 1 : Caution 2 : Fault
			Fixed 0
			Fixed 0
			Fixed 0

Index	Sub index	Name	R/W	Back up target	Format	Data length	Default data	Description of settings
82	1	Display Color Setting of Main-display Selection	R/W	○	UInteger	1byte	0	0 : Red when ON, Green when OFF 1 : Green when ON, Red when OFF 2 : Always red 3 : Always green
	2	Display Setting of Sub-Display Selection	R/W	○	UInteger	1byte	0	0 : Std (Displays threshold) 1 : OFF (Displays nothing) 2 : Unit (Presently selected pressure unit is displayed) 3 : No** (Desired No. can be shown) 4 : Cust (Desired numbers, alphabets and signs can be shown)
	3	Display Speed Set	R/W	○	UInteger	1byte	0	0 : 250ms 1 : 500ms 2 : 1000ms
	4	Peak / Bottom Hold Set	R/W	○	UInteger	1byte	0	0 : OFF 1 : ON
83	0	Pressure Unit Set	R/W	○	UInteger	1byte	DP-101□: 2 DP-102□: 1	1 : MPa (This cannot be selected in the case of DP-101□) 2 : kPa
84	1	No** Display Set	R/W	○	String	2byte	01	Two half-width numeric characters : 01 to 99
	2	Custom Display Set	R/W	○	String	4byte	AAAA	Four half-width alphanumeric characters * Error is generated if any of the following characters is entered. T, J, k, m, p, s, x
85	0	Zero-Adjust	R		UInteger	1byte		0 : Not executed 1 : In execution
163	0	Operating Time	R		UInteger	4byte	0	Cumulative operating period (Units: h) (Note)
164	0	Number of Data Save Operations	R		UInteger	4byte	0	Number of times data is saved to non-volatile memory
168	0	Notification Flag Setting	R/W	○	UInteger	1byte	0	0 : Notify 1 : Do not notify
169	0	Notification Event Code	R		UInteger	2byte		Newest event code readout

Note: This is not added to the cumulative operating period if the operating time is less than 1 hour.

4 EVENT FUNCTION

Error indication	Event code	Error level	State
	0x7710	Fault	Detection of output wire short-circuit / overcurrent
Display of measured value	0x8D00	Caution	Operating time exceeded
Display of measured value	0x8D01	Caution	Max. number of the nonvolatile memory save operations exceeded
	0x8CB0	Normal	Pressure applied during zero-adjustment
	0x8CB1	Normal	Outside the rated pressure range
	0x1811	Normal	Pressure element abnormality
	0x8CA1	Normal	The applied pressure exceeds the upper limit
	0x8CA2	Normal	The applied pressure exceeds the lower limit

Note: When notification event codes are continuously read from the high-level master side, "0x0000" will be read out even if the event status remains.