

Operation Manual

PRODUCT NAME

Fieldbus system IO-Link Setting tool

MODEL / Series / Product Number

IO-Link Device Tool V5.1 PE

SMC Corporation

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1.Outline

The IO-Link Device Tool is an application software for IO-Link developed by Technologie Management Gruppe (TMG hereafter) in Germany, that makes the following operations possible for the IO-Link Module in the EX600, EX245 and EXW1 series.

- Monitoring various parameters of IO-Link Module
- Monitoring and setting various parameters of IO-Link devices

Note: Applicable SI units and IO-Link Modules are as following.

SI unit	IO-Link Module
EX600-SPN3/SPN4	
EX600-SEN7/SEN8	
EX600-SEC3/SEC4	
EX600-SEN3-X80	EX600-LAB1、EX600-LBB1
EX600-MPN1	
EX600-MEN1	
EX600-MEC1	
EX245-SPN1A	
EX245-SPN2A	EX245-LA1、EX245-LB1
EX245-SPN3A	
EXW1-BECAC/BPNAC1/BENAC1	EXW1-RLAPA8C, EXW1-RLBPA7C

IO-Link Device Tool





2.System Requirements and How to Obtain the Software

- How to Obtain the Software
- IO-Link Device Tool

After click "Request for 30 days free version and quotation" at the website below and register user iformation, IO-Link Device Tool file can be downloaded.

- · URL : https://www.tmgte.de/en/products/io-link/io-link-device-tool-professional-edition.html
- IOLM file
- IOLM file can be downloaded from the website below.
- URL : https://www.smcworld.com/en-jp/

Documents/Download >> Operation Manuals >> Fieldbus System Serial Transmission System >> IO-Link Device Tool

License Key

- The IO-Link Device Tool can be used free of charge for 30 days after the first installation, but a license key is required after that period. A license key can be obtained in one of two ways:

- Purchase one from TMG. Either CmActLicense (limited to a single PC) or a USB dongle (valid when connected to any PC)
 => Contact TMG for details.
- 2) Purchase a USB dongle from SMC. Model No. EX9-ZSW-LDT1
- Minimum System Requirements

Components	Requirements
Operating system	Windows10 (32-and 64-bit)
Memory	2GB
Free hard disk space	150MB
Processor	1GHz or higher,32-bit(x86) or 64-bit(x64)
Screen resolution	800 × 600 pixels

Recommended System Requirements

Components	Requirements
Operating system	Windows10 (32-and 64-bit)
Memory	8GB
Free hard disk space	250MB
Processor	1GHz or higher,64-bit(x64)
Screen resolution	1920 × 1080 pixels



3.Connection between an EX series and a PC

Connect the EX600, EX245 and EXW1 series to a PC via a switching hub.



Fig. Example of a connection using a switching hub and EX600

If the IP address can be set without PLC, it is possible to connect directly to either the communication connectors on the SI unit using EX9-AC###EN-PSRJ.





Fig. Example of a direct connection between a PC and SI unit(EX600)



4.Software Installation

- Install the software according to the following procedure:
- If an old version of IO-Link Device Tool has been installed on the PC, be sure to uninstall it before installing the new version of IO-Link Device Tool.
- Double-click Setup.exe. The following screen will appear. Select a language and then press [OK].



- Check the license terms, and if you agree, check "I accept the agreement" and then press [Next].

Setup - IO-Link Device Tool V5.1 - PE version 5.1.1	_		×
License Agreement Please read the following important information before continuing.		Q	
Please read the following License Agreement. You must accept the te agreement before continuing with the installation.	erms of t	this	
Software License Conditions Copyright © 2020 TMG Technologie und Engineering GmbH		^	
Rights of Use 1. We grant you the non-exclusive right of intended use of th The intended use is limited to one workplace and only in c with the delivered Hardware. The right of use shall be uni 2. You may use the Software solely on the hardware referr technical data sheet or in the instruction manual, in the ab	ne Softv onjunctio imited in ed to in sence o	vare. on time. the fsuch v	
 I accept the agreement I do not accept the agreement 			
<u>N</u> ext	t >	Can	cel



- Select a folder to install the software and then press [Next].

Setup - IO-Link Device Tool V5.1 - PE version 5.1.1	_		×
Select Destination Location Where should IO-Link Device Tool V5.1 - PE be installed?		6	B
Setup will install IO-Link Device Tool V5, 1 - PE into the following	g folder.		
To continue, click Next. If you would like to select a different folder, clic	k Browse	2.	
C:¥Program Files (x86)¥TMG TE GmbH¥IO-Link Device Tool V5.1 - PE	B <u>r</u> ows	se	
At least 34.4 Mb of free disk space is required.			
< <u>B</u> ack <u>N</u> ext >		Cance	el

- If you want to add a shortcut, check "Create a desktop shortcut" and then press [Next].

Setup - IO-Link Device Tool V5.1 - PE version 5.1.1	-		×
Select Additional Tasks Which additional tasks should be performed?		G	
Select the additional tasks you would like Setup to perform wh Device Tool V5.1 - PE, then click Next.	ile installing IO	-Link	
Additional shortcuts:			
Create a desktop shortcut			
< <u>B</u> adk	<u>N</u> ext >	Can	cel



- Check the installation conditions and if everything looks correct, press [Install].

Setup - IO-Link Device Tool V5.1 - PE version 5.1.1 -		×
Ready to Install Setup is now ready to begin installing IO-Link Device Tool V5.1 - PE on your computer.		
Click Install to continue with the installation, or click Back if you want to revier change any settings.	/v or	
Destination location: C:¥Program Files (x86)¥TMG TE GmbH¥IO-Link Device Tool V5.1 - PE	1	^
Additional tasks: Additional shortcuts: Create a desktop shortcut		
<		~
~		
< <u>B</u> ack Install	Ca	incel

- The above screen appears when the installation is successful. Then press [Finish].

Setup - IO-Link Device Too	V5.1 - PE version 5.1.1	_		\times
	Completing the IO- Tool V5.1 - PE Setu Setup has finished installing IO-Lin your computer. The application ma the installed shortcuts. Click Finish to exit Setup.	Link De p Wizar k Device Tool 1 y be launched	vice rd	on tting
		<u>F</u> inish		

The following description uses the manifold configuration example shown in Fig. 1.



5.Starting the Software

- When the IO-Link Device Tool V#.# is started, the following screen appears.
- Select the Help > Content, to refer to the User Manual prepared by TMG (read the manual for a detailed description of the operations).



- Select a user role depending on the user authorization.

User roles	Password setting	Initial password
Specialist	Allowed	special
Maintenance	Not allowed	maintain
Operator	Not allowed	None

* For details of the user roles, refer to the User Manual prepared by TMG.

N 10-	Link Device	Tool V5	1 - PE			– 🗆 X
File	Options	View	Help	Logged in as Specialist -		
					Topology Catalog Catalog D-Link	Search Master
						^ ~



6.Importing an IOLM File

To use the IO-Link Module in the EX600, EX245 and EXW1 series for IO-Link Device Tool, a dedicated setting file (IOLM file) must be imported.

For an EX600-SPN3/4 SI unit:	SMC-EX600-SPN-	LxB1-202*****	-IOLM1.5.zip)
For an EX600-SEN7/8 SI unit:	SMC-EX600-SEN	7_8-LxB1-202*	*****-IOLM1.	5.zip
For an EX600-SEC3/4 SI unit:	SMC-EX600-SEC	3_4-LxB1-202*	*****-IOLM1.	5.zip
For an EX600-SEN3-X80 SI unit:	SMC-EX600-SEN-	LxB1-202*****	-IOLM1.5.zip)
For an EX600-MPN1 SI unit:	SMC-EX600-MPN	-LxB1-202****	[•] -IOLM1.5.zij	p
For an EX600-MEN1 SI unit:	SMC-EX600-MEN	-LxB1-202****	[•] -IOLM1.5.zij	p
For an EX600-MEC1 SI unit:	SMC-EX600-MEC	-LxB1-202****	[•] -IOLM1.5.zij	p
For an EX245-SPN1A SI unit:	SMC-EX245-SPN	_FX-Lx1-202**	***-IOLM1.5	zip
For an EX245-SPN2A/3A SI unit:	SMC-EX245-SPN	_Cu-Lx1-202**	***-IOLM1.5	zip
For an EXW1-BECAC compact w	ireless base:	SMC-EXW1-E	3EC-202*****	-IOLM1.5.zip
For an EXW1-BPNAC1 compact	wireless base:	SMC-EXW1-E	3PN-202*****	-IOLM1.5.zip
For an EXW1-BENAC1 compact	wireless base:	SMC-EXW1-E	3EN-202*****	-IOLM1.5.zip

- The following shows how to import an IOLM file.
- (1) Select Options > Import IOLM (IO-Link Module Description).





(2) Select a folder where the IOLM file in zip format is saved.

(3) Press [OK].

- (4) Check the IOLM file to be imported.
- (5) Press [Import].
- (6) "SMC Corporation" is added to the Module folder in the Catalog.

NO-Link Device Tool V5.1 - PE			- 0 ×
File Options View Help	Logged in as Specialist •	Topology	Search Master
(4)	Import IOLM - IO Master Description Path CVUlsersWKAI5_059VDesktop Filter Vendor IDDevice IDFieldbusFIEldbusFIEldbusFIEldbusFIEldbusFIEldbusFIEldbusFIEldbusFIEldbusFFIEldbu	2)	0.2) SMC-EX600-SPN8/S
	JDLM Subdirectory Vendor ID Device ID SMC-EX800.SPN-UxB1-20201123+0LM1.5 0x0083 0x010015		
	711/9-00ФШ × Search path for IOLM import 72/1/97 © OneDrine 2 2 2 4 9 9/201-K 2 9/201-K 2 9/201-K 3 9/201-K 9 9/201-K 9	(5) Cotalog Co	Filter PPDFT C SMDH



7.Importing an IODD File

- To set an IO-Link Device by using IO-Link Device Tool, an IODD file for each device must be imported.
 - For how to obtain an IODD file, contact the manufacturer of your device.
 - How to import the IODD file of the SMC EX260-SIL1 is shown below.
 - The IODD file can be downloaded from the URL below.
 - URL: https://www.smcworld.com/en-jp/

Documents/Download >> Operation Manuals >> Fieldbus System Serial Transmission System >> IO-Link Device>> EX260-SIL1 >> Configuration File

(1) Select the Option > Import IODD (IO Device Description).





(2) Select the folder where the IODD file is saved.

- (3) Press [OK].
- (4) Check the IODD file to be imported.
- (5) Press [Import].
- (6) EX260-SIL is added to the IO-Link folder in the Catalog.

\odot	IO-Link Device	Tool V5.1	- PE							– 0 ×	
F	File Options	View	Help	Logged in as Specia	ist 🔹						
			Import	IODD					(2) ^{Topology}	Search Master	
(Λ)			Path	G#SMC-EX260-SIL1#SMC-EX260-S	IL1¥SMC-EX260-SIL1_04_2-20181213	8-IODD1WSMC-EX260-SIL1_04_2-201812	13-IODD 1.1 🗸 🦯	IODDFinder			
(4)			Filter	Vendor ID Dev	e ID Revision all	\checkmark		include subdirectories			
				IODD		Additional path	Vendor ID	Device ID			
				SMC-EX260-SIL1_04_2-20181213-IODD1.1	ml		0x0083	0x000159			
					フォルダーの参照	×					
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					> sample					lager	
					> SMC					SMC_Corporation	
					SMC-EX260-SIL1						
					✓ SMC-EX260-S	IL1_04_2-20181213-IODD1				TMG TE GmbH	
					SMC-EX26	50-SIL1_04_2-20181213-IODD1.1				-	
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8. How to Use the Software

8.1. The IO-Link Module setting screen

8.1.1. Search Master

- After connecting the SI unit or compact wireless base to a PC, supply power to the EX600 or EXW1 and conduct the operation as follows.

Note: EX245 does not support the function of Search Master.

- (1) Press [Search Master].
- (2) When the scanned EX600 or EXW1 is shown on the Master Discovery screen, double-click it. The IO-Link Module setting screen will appear.
 - * If the EX600 or EXW1 does not appear, perform the following. - Make sure an IP address has been set for the SI unit or compact wireless base. - Turn off the EX600 or EXW1 and then turn it on again. - Restart the IO-Link Device Tool. (1) TMG_TOOL_200604 File Options View Help Logged in as Specialist Search Maste Topology (2)Master Discovery × C IP => Catalog Filter B-C) Master B-C) IO-Link



8.1.2. Individual selection

- After connecting the SI unit or compact wireless base to a PC, supply power to the EX600, EX245 or EXW1 and conduct the operation as follows.

- (1) Select the IOLM file that matches the SI unit or compact wireless base to be used.
- (2) Drag and move to Topology. The IO-Link Module setting screen will appear.
- (3) Press [Enter IP address] to display the input screen.
- (4) Input the IP address of the using SI unit or compact wireless base.
- (5) Press [OK].





8.2. IO-Link Module Setting Screen

- The IO-Link Module Setting Screen has the three tabs shown below. Selecting a tab changes the screen.

	•	
Nº	Tab name	Outline
1	Common	Shows specific information such as the vendor ID of the EX600/EX245/EXW1.
2	Port Config	Shows information on devices connected to the ports of the EX600-L#B1 or EX245-L#1.
3	Settings	Shows parameter setting information for the EX600-L#B1.

Note: EX600-SEC3/SEC4, EX600-MEN1, EX600-MEC1, EX245-SPN#A, EXW1-BECAC, EXW1-BPNAC1 and EXW1-BENAC1 don't support the Settings tab.

8.3. Common Screen

- The Common Screen of the SMC-EX600/EX245/EXW1 shows property data such as the Vendor ID. (The image is an example of EX600.)

No-Link Device Tool V5.1 - PE					-	- a ×
File Options View Help	Logged in as Spe	cialist •				
(192.168.0.2) SMC-EX600-SPN3/SPN4					Topology	Search Master
😢 (192.168.0.2) SMC-EX600-SPN3/SPN4					PROFINET	SMC-EVEND-SDN9/S
· · · · · · · · · · · · · · · · · · ·				Settings ok	(102.100.02)	0.00 2000 0.1000
Common Port Config Settings						
Vendor						
(1)	Vendor	SMC Corporation				
	IO-Link Vendor ID	0×0083				
Product						
(3)	Product name	SMC-EX600-SPN8/SPN4				
	Description	Centralised multipoint Fieldbus System for digit	al and analogue I/O and I	O-Link		
1						
Claim Da				~		
(4)	JOLM	SMC-EX600-SPN-LxB1-20201123-JOLM1.5xml				
9	JOLM Revision	5.1				
	FW Revision	1.0.0/1.0.0	IOLM Device ID	0×010015		
Main Communication Interface						
®	Fieldbus Vendor ID	0×0083	Fieldbus Device ID	0×0015		
<u> </u>			additional ID	0x0000001		,
	Fieldbus DD	GSDML-V2.35-SMC-EX600-SPN3_4-20201029×r	ml		Catalog	Filter
	Name of Station	ex600-spn			B-C Master	
(5)	IP Address	192.168.0.2 E (6) MAC Address	00:23:C6:55:22:33		B-C SMC Corpor	ation ET
Tool Communication Interface					TMG TE Gm	ьн
	Tool Communication Type	TMG_SMITCP			a ja un	
	Connection Reference	192.168.0.2	Unique Identifier 0	23:C6:55:22:33		
1						

Nº	Item	Outline
1	Vendor	SMC Corporation, fixed value
2	IO-Link Vendor ID	0x0083, fixed value
3	Product name	The SI unit or compact wireless base name, fixed value
4	IOLM	Shows the name of the IOLM file being used.
5	IP Address	Shows the IP address of the SI unit or compact wireless base being monitored.
6	MAC Address	Shows the MAC address of the SI unit or compact wireless base being monitored.



8.4. Port Config Screen

8.4.1. Reading the IO-Link Port Settings

- The following shows how to read the port settings of the EX600-L#B1, EX245-L#1 or EXW1-RL#.

- (1) Set the status to [Go Online].
- (2) Press [read from master] to read the port settings of the EX600-L#B1, EX245-L#1 or EXW1-RL#.

Ol-Link Device Tool V5.1 - PE (1) ► : Offline IO-Link Device Tool V5.1 - PE	- a ×
File Options View Help Logged in as Specialist Topolog (112.168.0.2) SMO-EX500-E	losy Search Master
If 192 188.0.23 Exting all Onmon Port Mode Verder Port Mode INTER 4.4 D-Lick INTER 4.4 D-Lick INTER 4.4 D-Lick INTER 4.4 D-Lick INTER 5.4 D-Lick </td <td>Mester Master Master Master Def Filter Master Def PROPNET Def PROPNET Def PROPNET Def PROPNET Def PROPNET Def PROPNET</td>	Mester Master Master Master Def Filter Master Def PROPNET Def PROPNET Def PROPNET Def PROPNET Def PROPNET Def PROPNET

O-Link Device Tool V5.1 - PE





Note: In the case of EX245, show from the IO-Link Module unit connected to the position nearest to the SI unit.

In the case of EXW1, show from wireless channele 1.



8.4.2. Changing the Settings of the IO-Link Ports (Only possible when not connected to PLC)

- The following shows how to change the port settings of the EX600-L#B1 by using IO-Link Device Tool. * EXW1 series cannot change IO-Link ports by the IO-Link Device Tool.
- (1) Set the status to [Go Offline].
- (2) Place the cursor on [Mode] of the Port whose setting you want to change and right-click the mouse. The settings for the port will be shown.
- (3) Place the cursor on the desired Port settingand left-click the mouse. [Mode] will be set to that setting.
- (4) When you press [Go Online], the "Synchronize Port Configuration" screen will appear.
- (5) Press [write to master] to apply the setting to the EX600-L#B1.

NO-Link Device Tool V5.1 -	PE		
File Options View	_{Help} (1)(4)	Logged in as Specialist -	
(192.168.0.1) SMC-EX600			
(192.168.0.1) SMC-EX600)		
0 2 1	(2)		
Common Port Config Set	ttings /	(3)	
Ports			
Port M	1ode Vendor	Device	
1 0 0 0, 0, 4 💽	IO-Lint		
1 0 0 0, 1, 4 🛛 🕙	IO-Link		
1 0 0 0, 2, 4 📎	IO DO P		
1 0 0 0, 3, 4 🕑	IO- nc		
2 0 0 0, 0, 4	IO-Low		
	IO-Link		
	IO-Link		
2101010, 3, 4	IO-Link		
	Synchronize Port Con	nfiguration	
		,	_
	Configured by PL	C Module Configuration Change	ed
	PLC connected	Port Configuration Changed	(5)
		Master Variables Changed	
	The port configurati choose whether you to the tool or wheth tool to the master.	ion or master variables have been changed. You u want to transfer the configuration from the ma her you want to transfer the configuration from t	can ster he
	read from master	r write to master Cancel	

- * When the SI unit is EX600-SPN3/4, EX600-MPN1, EX245-SPN#A, EXW1-BECAC, EXW1-BPNAC1 or EXW1-BENAC1 use the configuration software of the PLC or IO Configurator (only EXW1) to change the parameters of EX600-L#B1, EX245-L#1 and EXW1-RL#.
- * Parameters cannot be changed by the IO-Link Device Tool while communication with the PLC is established.



8.4.3. Scanning IO-Link Devices

- The following shows the procedures for scanning IO-Link devices when communication with IO-Link devices connected to the EX600-L#B1, EX245-L#1 or EXW1-RL# is established.
- (1) Set the status to [Go Online].
- (2) Press [Check Devices]. The connected IO-Link devices will be shown.
- (3) Press [Takeover devices into engineering].
- (4) Models, etc. of the connected IO-Link devices are shown.

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in Fort Con	ine Set	ttings							
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000, 1, 4	0	IO-Link							
	0	IO-Link		Check D	levices				
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0000, 1, 4	8	IO-Link IO-Link		0	n			ISE20B-L	1.1
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000, 3, 4	۲	IO-Link		2	n				
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Confir Deta ink Device Options 8.0.1) SMC 92.168.0.1) 92.168.0.1) 92.168.0.1) 92.168.0.1) 92.168.0.1) 10000, 0, 10000, 0, 10000, 1, 10000, 2, 10000, 0, 20000, 0, 2000	4 4 4 4 4	V5.1 - PE ew Help EX600 Settings Mode 0 0 0 0 0 0 0 0 0 0 0 0 0	-Link -Link -Link -Link -Link -Link	Vendor SMC Corporati	Logge	d in as Specialist Device ISE20B-L	•	4)	O I
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Confir Deta ink Device Options 8.0.1) SMC 92.168.0.1) = © 1 10000, 0, 10000, 0, 10000, 1, 10000, 2, 10000, 0, 20000, 0, 20000, 0, 20000, 0,	4 4 4 4 4 4 4 4	V5.1 - PE ew Help EX600 Mode O O O O O O O O O O O O O	Link Link Link Link Link Link Link	Vendor SMC Corporati	Logge on	d in as Specialist Device ISE20B-L	•	4)	O I



8.4.4. IO-Link Device Validation Function / Data Storage Function Setting (Only possible when not connected to PLC)

- In the "Port Config Details" on the Port Config Screen of the SMC-EX600, the settings for the IO-Link device Validation Function / Data storage function can be set for each port.
- * EXW1 series cannot change IO-Link Device Validation Function / Data Storage Function Setting by the IO-Link Device Tool.
- (1) Set the status to [Go Offline].
- (2) Select a port whose [Mode] is set to IO-Link.
- (3) Select the validation & Backup setting in [IO-Link Mode].
- * For details on each setting, refer to the SI unit Operation Manual of protocol used.
- (4) When the status is set to [Go Online], the Synchronize Port Configuration screen appears.
 - Press the [write to master] button, to apply the setting to the EX600-L#B1. * See page <u>17</u> for the screen.

1.4.4	PD		S	ettings ok
Settings				
Mode	Vendor	Device		
IO-Link	SMC Corporation	ISE20B-1 (2)		
IO-Link		(=)		
IO-Link				
	Settings Mode 10-Link 10-Link 10-Link 10-Link 10-Link 10-Link 10-Link	Settings Mode Vendor IO-Link SMC Corporation IO-Link IO-Link IO-Link IO-Link IO-Link IO-Link IO-Link IO-Link IO-Link IO-Link	Settings Mode Vendor Device IO-Link SMC Corporation ISE20B-L (2) IO-Link IO-Link IO-Link IO-Link IO-Link IO-Link	Settings

- * When the SI unit is EX600-SPN3/4, EX600-MPN1, EX245-SPN#A, EXW1-BECAC, EXW1-BPNAC1 or EXW1-BENAC1 use the configuration software of the PLC or IO Configurator (only EXW1) to change the parameters of EX600-L#B1, EX245-L#1 and EXW1-RL#.
- * Parameters cannot be changed by the IO-Link Device Tool while communication with the PLC is established.



8.4.5. Port Config Details

- In "Port Config Details" on the Port Config screen of the SMC-EX600/EX245/EXW1, information on connected IO-Link devices is shown.

(1) Select a port to which an IO-Link device is connected.

(2) The information on the IO-Link device is shown in "Port Config Details" as shown below.

Nº	Item	Outline
1	Vendor ID	Vendor ID
2	Device ID	Device ID
3	Product ID	Product ID
4	IODD	IODD file name
5	Device PD Length Inputs	Input size of the process data
6	Device PD Length Outputs	Output size of the process data

192:100.0.1) SN	AC-EX600						
e Port Co	nfig Sauliana	- PD	(1)			Setting	s ok
orts	anne Gettings						
Port	Mode	Vendor	Device	1			0
1 0 0 0, 0, 4	IO-I	ink SMC Corporation	n ISE20B				
1 0 0 0, 1, 4	🕑 IO-I	ink					
1 0 0 0, 2, 4	🕑 IO-I	ink					
1 0 0 0, 3, 4	IO-I	ink					
2 0 0 0, 0, 4	IO-I	ink					
2 0 0 0, 1, 4	IO-I	ink					
2 0 0 0, 2, 4	IO-I	ink					
2 0 0 0, 3, 4	🕑 IO-I	ink					
			(2)				



8.5. Settings Screen

- The Setting Screen shows parameter setting information for the EX600-L#B1.

* EX600-SEC3/SEC4, EX600-MEN1, EX600-MEC1, EX245-SPN#A, EXW1-BECAC, EXW1-BPNAC1 and EXW1-BENAC1 don't support the Setting screen.

8.5.1. Reading IO-Link Module Parameters

- The following shows the procedure to read the parameters of the EX600-L#B1.

- For details of the parameters, refer to the SI unit Operation Manual of protocol used.

- (1) Set the status to [Go Online].
- (2) Select the [Settings] tab. The parameters of the unit selected in "List of Masters" will be shown.
- (3) The units can be switched in "List of Masters" area.
- (4) "Maximum" of "Total Input/Output Size" shows the maximum acceptable configuration size that can be occupied, and "Configured" shows the actually occupied configuration size (for the EX600-SEN7/SEN8 and EX600-SEN3-X80 only).





Fig. Screen for the EX600-SEN7/SEN8, and EX600-SEN3-X80

Idle Output (DO_C/Q)

Port specific Para

(3)

clear

8.5.2. Setting the IO-Link Module Parameters (Only possible when not connected to PLC) (for the EX600-SEN7/SEN8, and EX600-SEN3-X80 only)

- The following shows the procedure to set the parameters of the EX600-L#B1.

- For details of the parameters, refer to the SI unit Operation Manual of protocol used.

- (1) Set the status to [Go Offline].
- (2) Select the [Settings] tab. The parameters of the unit selected in "List of Masters" will be shown.
- (3) The units can be switched in "List of Masters" area.
- (4) When the status is set to [Go Online] after changing the "Module Parameter," the "Synchronize Port Configuration" screen appears.
- (5) Press [write to master] to apply the parameters to the unit.



- * When the SI unit is EX600-SPN3/4, EX600-MPN1, EX245-SPN#A, EXW1-BECAC, EXW1-BPNAC1 or EXW1-BENAC1 use the configuration software of the PLC or IO Configurator (only EXW1) to change the parameters of EX600-L#B1, EX245-L#1 and EXW1-RL#.
- * Parameters cannot be changed by the IO-Link Device Tool while communication with the PLC is established.



8.6. Setting the IO-Link Devices

8.6.1. Reading Information on IO-Link Devices

- Reading information on an IO-Link device can be performed using the following procedure.

- The following screens are examples of using a pressure switche ISE20B-L. The dedicated IODD file has been imported in advance.

* Screens differ depending on the IO-Link device.

- (1) Select an IO-Link device to read information, after setting the status to [Go Online], and double-click the row.
- (2) The Common tab screen for IO-Link devices appears in a new window.
- (3) Pressing the [Upload from device] button, the information on the connected IO-Link device will be read.

	O-Link Device Tool V5.1 - PE	
	File Options View Help Logged in as Specialist	
	(192.1680.1) SMC-EX600 (1)	
	€ (192.168.0.1) SMC-EX600	
		Settings ok
	Common Port Config Settings	
	Ports	
	Port Mode Vendor Device	0 1
	10000, 0, 4 SMC Corporation ISE208-L	
	10000.3.4 D-Link	
	20000.0.4 🕑 10-Link	
	2(0)00, 1, 4 🐼 IO-Link	
	2(0)0/0, 2, 4 😢 IO-Link	
	2(0)0)0, 8, 4 🕑 IO-Link	
	- Port Config Details-	
	Vendor ID 0x0088 Device ID 0x00014E Product ID ISE20B-L IO-Link Mode	no check
	IODD SMC-ISE20B-L-20180222-IODD1.1×ml	
	Device PD Length Inputs 2 Outputs 0	
(2) (3	3)	
€ 10-Link Device Tool V5.1 ; PE (2)	3)	- a ×
IO-Link Device Tool V5.1 /E File Options View Help	Logged in as Specialist -	- a ×
IO-Link Device Tool V5.1 - KE Fie Options Vie Help (1) SMC-EX600 110(1) TE208-L	Logged in as Specialist	- C × Topology Search Master
10-Link Device Tool V5.1 / E 10-Link Device Tool V5.1 / E 10 SMC-EX880 / 11 [0(4] / E288-L 10 SE208-yet SMC-Exp(0 (1) [0(4]	Logged in as Specialist -	- C × Topology Search Master C + (192108.0.1) SMC-EX600
10-Link Device Tool V5.1, VE Tie Options Vie Help (1) SMC-EX880 (1) [0(1) 2209-L (1) [0(1) 2209-L (1) [0(4) 209-L (1)	Logged in as Specialist	- □ × Topology Search Master ■ Ether Het[P ■ (104) ISE209-L ● (04) ISE209-L
ID-Link Device Tool V5.1 (2) IBC Options Vin Help (1) SMC-D430 (1) [0(1) E20B-L SEC08-44 SMC-D400 (1) [0(4) SEC	Logged in as Specialist	Topology Search Master ■ EtherNetIP ● (1921680.1) SMO-EX680 ● (1014) SE209-L
ID-Link Device Tool V5.1 - E File Options Vier Help (1) SMC-EX800 (11) [0(4] (#208-L SEGEN 445 SMC-EX800 (11) [0(4] SEGEN	Logged in as Specialist	Topology Search Master ● EtherNetP ● (1921698.1) SMC-EX500 ● [0]4] SE20B-L
IO-Link Device Tool V5.1 - E File Options Vie Help (1) SMC-EX580 (1) [04] SE205 - At SMC-Ex500 (1) [04] Second State SMC-Ex500 (1) [04] Common Process Defa Mentification Obse Overview	Logged in as Specialist	Topology Search Master
Ol-Link Device Tool V5.1-YE File Options Vie Help (1) SMC-EX880 (1) [0(1) J228-L SE208-yet SMC-Ex800 (1) [0(4) SE208-yet SMC-Ex800 (1) [0(4) Output Frocess Data Mentification Obse Overview Overview Output IDO-Link	Logged in as Specialist Logged in as Specialist	
10-Link Device Tool V5.1 / E 10-Link Device Tool V5.1 / E 10-Link Device Tool V5.1 / E 10-Link 10-Link 10-Link	Logged in as Specialist	- □ × Topology Search Master ■ Ether NutP ■ (192 1888.1) SMO-Etiste ● (0)(4) DE208-L
10-Link Device Tool V5.1 · VE Tie Options Vie Help (1) SMC-EX800 (1) [0(4] SE2081-At SMC-EX800 (1) [0(4] SE2081-At SMC-EX800 (1) [0(4] Devices Data Identification Obse Overview Overview Overview IO-Link	Logged in as Specialist Varian Parameter Diagnosis Scope Generic IDDD Vendor SMC Corporation Vendor Text Were sincered com UFL http://www.smcworkd.com	Topology Search Master ■ Ether Net@ ● (1921888.1) SMO-EX800 ● (1941) SE208-L
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	Logged in as Specialist Logged in as Specialist	-
IO-Link Device Tool V5.1. / E Fie Options Vie Help (1) SMC-EX680 (1) [0(4]) E208-1 SE208-48 SMC-EX700 (1) [0(4] Field SMC-EX700 (1) [0(Lagged in as Specialist Lagged in as Specialist	- □ × Topolar ■ EtherNetP ● (1921/88.01) SMO-E-05400 ● (1921/88.01) SMO-E-05400
O-Link Device Tool V5.1, //// Fie Options Vie Help (1) SMC-EX800 (1) [0(4] SE208-4 ESMC-EX900 (1) [0(4] Device Description Process Data Mentification Obser Overview Device EE200-1 Description	Logged in as Specialist	Topoley Search Master ■ CHAND ■ CHAN
ID-Link Device Tool V5.1 - ¥ File Options Vin Help (1) SMC-EX380 (1) [0(1] #20B-L SISCOL-4x SMC-EX460 (1) [0(4] SISCOL-4	Logged in as Specialist vation Parameter Diagnosis Scope Generic IDDD Vendor Vendor ID INFa	Topology Search Master
IO-Link Device Tool V5.1-F File Options Vier Help (1) SMC-EX380 (1) [0(4] SE208-42 SMC-Ex480	Logged in as Specialist Logged in as Specialist Logged in as Specialist	Topology Search Master
IO-Link Device Tool V5.1 - YE File Options Vie Help (1) SMC-EX680 (1) [0(4] (1)	Logged in as Specialist Logged in as Specialist Varion Parameter Diagnosis Scope Generic IDDD Verdor Parameter Diagnosis Scope Generic IDDD Verdor To Bround To Bround To D-Link Revision 11 SD mode Pea WhOcycleTime 200	Topolary Search Master
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IO-Link Device Tool V5.1 - ¥ File Options Vin Help (1) SMC-EX880 (1) [MI] #20B-L SE208-148 SMC-EX800 (1) [04] SE208-148 SMC-EX800 (1) [04] Frocess Data Mentification Obse Overview Overview IO-Link Device D Birdet Device D Birdet OOM2 SMC-EE208-L-2018022-4	Logged in as Specialist	Topology Search Master
ID-Link Device Tool V5.1 - F File Options Vier Help (1) SMC-EX300 (1) [0(4] E208-L Strate Device Device Device ID Bitrate Device Description De	Logged in as Specialist Logged in as Specialist vation Parameter Diagnosis Scope Generic DDD Verdor SMC Corporation Verdor To Bx0088 UFL http://www.smcworld.com Do-Link Revision 11 SX0 mode ves DD11.xml Revision V180 Date 2010-02-22	Topology Search Master
IO-Link Device Tool V5.1-YE File Options Vie Help (1) SMC-EX380 (1) [0(4] (1) [Logged in as Specialist • vation Parameter Verdor SMC Corporation Verdor Text ImmoverMacom Verdor ID (b.0083) UFL http://www.smcworld.com IMPa ImmoverMacom DD11.txml Revision	Topology Search Mater
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10-Link Device Tool V5.1 - ¥ File Options Vin Help (1) SMC-EX880 (1) J(B(1) #20B-L STORE STATE STATE STATE STORE STATE STORE STATE STORE STA	Logged in as Specialist	Topolary Back Master
IO-Link Device Tool V5.1 - F File Options Vier Help (1) SMC-EX800 1) [0(1] E208-L (1) SMC-EX800 1) [0(1] E208-L SE208-L SMC-EX800 1) [0(4] File Options Frocess Data Mentification Obse Overview Frocess Data Mentification Obse Overview Device Description Device ID Bindet Device Description Double Description Double Description Double Description Double Description Device Description Device Description Double Description Double Description Double Description Device Description Double Description Double Description Double Description Double Description Double Description Double Description Device Description Double Description Double Description Descrip	Logged in as Specialist Logged in as Specialist	Topology Search Master
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I O-Link Device Tool V5.1 - K File Options Vie Help (1) SMC-EX680 File Options Vie Help (1) SMC-EX680 File Options Vie Help (1) SMC-EX680 File Options Vie Help File Options V	Logged in as Specialist Logged in as Specialist varion Parameter Deprove SMO Corporation Vendor SMO Corporation Vendor Text Vendor Text Vendor TD D 0003 UFL http://www.amcworld.com D 011xml Revision VII0 Date 2018-02-22 color	Topolar Topolar Center Center Control Center Cen
IO-Link Device Tool V5.1 - YE File Options Vie Help (1) SMC-EX680 (1) [04] (1) SMC-EX680 (1) [04]	Lagged in as Specialist Lagged in as Specialist Lagged in as Specialist Lagged in as Specialist Lagged in as Specialist Verdor Parameter Diagnosis Scope Generic DDD Verdor Text Www.smcworkf.com URL http://www.smcworkf.com D-Link Revision III D-Link Revision III D-Link Revision III Revision VIII0 Date 2018-02-22 Cober Co	Topolar Topolar December
ID-Link Device Tool V5.1 - ¥ File Options Vin Help (1) SMC-EX800 (1) [0[1] E20B-L SISCOL 46 SMC-EX800 (1) [0[4] (1) [0[4] E20B-L SISCOL 46 SMC-EX800 (1) [0[4] (1)	Logged in as Specialist	Topology Search Marter Cherrent De Cherrent De Cherre
ID-Link Device Tool V5.1 - F File Options Vir Help (1) SMC-EX800 (1) [0(4]	Logged in as Specialist •	Topolar Topolar Chercher



8.6.2. IO-Link Device Process Data (Example using the ISE20B-L)

- When the "Process Data" tab of the ISE20B-L is selected, the following screen appears.

- Displays Pressure information, diagnostic information, and switch output status, which comprise the input 2 Byte process data.



8.6.3. IO-Link Device Identification (Example using the ISE20B-L)

- When the "Identification" tab of the ISE20B-L is selected, the following screen appears. The specific IO-Link device data can be viewed in the "Identification" tab.
- Only the "Application-Specific Tag" allows writing.
- (1) Pressing the [Upload from device] button, the information on the connected device will be read.
- (2) Select either the "block write mode" or "direct write mode" for the device writing mode.
- * For details of the difference between the writing modes, see the User Manual prepared by TMG. (3) Any value within 32 characters can be set for the value of "Application-Specific Tag."
- To change this value, press the [Enter] button after directly entering the characters.
- (4) Press the [Download to device] button to write this change to the IO-Link device.

(4) (1) (2)				
File Options View Help Logged in as Specialist	•			
(1) SMC-EX600 (1) [0]4] JSE20B-L				
€ ISE208-L at \$/(C-5/600(1)[0 4]				
E E I Block write mode				
Common Process Data Identification Observation Parameter Diagnosis Scope Gen	eric I	DDD		
name	R/₩	Value	State	Unit
Vendor Name	ro	SMC Corporation	d	
Vendor Text	ro	www.smcworld.com	d	
Product Name	ro	ISE20B-L	d	
Product ID	ro	ISE20B-L	d	
Product Text	ro	Pressure Sensor	d	
Serial Number	ro	02A04069	d	
Hardware Version	ro	HW-V2.00	d	
Firmware Version	ro	EW-1/1-00	d	
Application Specific Tag	rw	***********************************	d	
			\sim	
				(3)
				(0)



8.6.4. IO-Link Device Observation (Example using the ISE20B-L)

- When the Observation tab of the ISE20B-L is selected, the following screen appears.
- Pressure information, diagnostic information, and switch output status are shown.

(1) Pressing the [Upload from device] button, the information on the connected device will be read.

I Oul jek Device Teel V5.1 - PE						
The Outries New Hile	lis as Cassialist					- 0 ^
(1) SMC=EV800 (1) folly SE200-1	in as opecialise +				Tanalam	Court Martin
					Тороюду	Search Master
CISE20B-L at SMC-FX600 (1) [0]4]			_	- • 💌		SMC-EX600
E = + + + block write mode -					- 🛞 [0 4] ISE	20B-L
Common Process Data Identification Observation Parameter	Diagnosis Scope Generic IO	DD				
name	R/W	Value	State	Unit		
[-] Monitor						
Process Data Input.Pressure Value	ro	-0.01	d	bar		
Process Data Input.Error	ro	No Error	d			
Process Data Input Switch State (OUT2)	ro	OFF	d			
Process Data Input Switch State (OUT1)	ro	OFF	d			
					Catalog	Filler
					Macter	
					⊕-ੴ10-Link	



8.6.5. IO-Link Device Parameter (Example using the ISE20B-L)

- When the Parameter tab of the ISE20B-L is selected, the following screen appears.

- The set parameters can be checked.
- For details of the parameters, refer to the Operation Manual of the using IO-Link device.

(1) Pressing the [Upload from device] button, the information on the connected device will be read.

- (2) Select either the "block write mode" or "direct write mode" for the device writing mode.
- * For details of the difference between the writing modes, refer to the User Manual prepared by TMG. (3) Change "Value." ("State" will change to "c.")
- (4) Press the [Download to device] button to write this change to the IO-Link device.





8.6.6. IO-Link Device Diagnosis (Example using the ISE20B-L)

- When the Diagnosis tab of the ISE20B-L is selected, the following screen appears.
- For details of the Diagnosis data, refer to the Operation Manual of the relevant IO-Link device.
- (1) Pressing the [Upload from device] button, the information on the connected device will be read.

IO-Link Device Tool V5.1 - PE				
File Options View Help Logged in as Specialis	t •			
192.168.0.1) SMC-EX600 (192.168.0.1)[1 0 0 0, 0, 4] ISE20B-L				
VISE208-L @ SMC-9X600 (192.168.0.1)[1]0[0]0, 0, 4]				
E E + + + + I block write mode				
Common Process Data Identification Observation Parameter Diagnosis Sc	ope Generic IO	DD		
Name	R/W	Value	State	Unit
Device Status	ro	Out of specification	d	
Detailed Device Status [1]	ro		d	
Detailed Device Status [2]	ro		d	
Detailed Device Status [3]	ro		d	
Detailed Device Status [4]	ro		d	
Detailed Device Status [5]	ro		d	
Detailed Device Status [6]	ro		d	
Detailed Device Status [7]	ro		d	
Detailed Device Status [8]	ro		d	
Detailed Device Status [9]	ro		d	
Detailed Device Status [10]	ro	Process variable range overrun	d	
Detailed Device Status [11]	ro		d	
Detailed Device Status [12]	ro		d	
Detailed Device Status [13]	ro		d	
Detailed Device Status [14]	ro	65425	d	

8.6.7. IO-Link Device Scope (Example using the ISE20B-L)

- When the Scope tab of the ISE20B-L is selected, the Scope screen appears. In th Scope screen, process data can be displayed in charts.
- For details on the Scope function, refer to the User Manual prepared by TMG.





8.6.8. IO-Link Device Generic (Example using the ISE20B-L)

- When the Generic tab of the ISE20B-L is selected, the following screen appears.
- For details of the Generic data, refer to the Operation Manual of the using IO-Link device.
- (1) When the [Upload from device] button is pressed, the information on the connected device will be read.
- (2) The information on Direct Parameter Page 1 is shown.
- (3) The current value of input/output Process Data is displayed.
 If the PLC is not connected, output Process Data can be written.
 (EX600-SEN3-X80 does not support writing output Process Data.)
- (4) Parameters of IO-Link devices are able to Read/Write by specifying ISDU (indexed service data unit).
- (5) Message Box records the appearence and disappearance log of event information.

No-Link Device Tool V5.1	1 - PE (1)	
File Options View	Help Logged in as Specialist	
(192.168.0.1) SMC-EX600	(192,168.0.1)[1]0]0[0, 0, 4] ISE20B-L	
🕑 ISE20B-L @ SMC-EX	600 (192.168.0.1)[1]0]0[0, 0, 4]	
	block write mode	(2)
Common Process Data	Identification Observation Parameter Diagnosis Scope Generic IODD	
Bytes	00 1E 17 21 11 50 00 00 83 00 01 4E 00 00 00 00	
Device ID [9, 10, 11]	0x00014E Process Data Input Length [5] 16 Bits Min Cycle Time [2]	2300 µs
Vendor ID [7, 8]	0x0083 Process Data Output Length [6] 0 Bits Master Cycle Time [1]	3000 µs
Revision ID [4]	1.1 M-sequence Capability [3] Ox21 SIO Mode	(3)
Process Data		
Inputs	1F 90	
Read Outputs		
Write Outputs		Write (4)
Parameter		
Index (dec)	Subindex (dec) Data	
0		Read (5)
	0	Write
Message Box		
<		× 1



- **8.6.9. IO-Link Device IODD (Example using the ISE20B-L)** When the IODD tab of the ISE20B-L is selected, the following screen appears.
- Detailed information on the IODD file is shown.

O-Link Device Tool V5.1 - PE		
File Options View Help		Logged in as Specialist
192.168.0.1) SMC-EX600 (192.168	0.1)[1 0 0 0, 0, 4] ISE2	0B-L
SMC-EX600 (192.1	168.0.1)[1 0 0 0, 0, 4]	
block w	vrite mode	
Common Process Data Identifica	tion Observation P	tarameter Diagnosis Scope Generic IODD
Data Sheet Process Data Varial	bles XML	
IODD SMC-ISE20B-L-201	180222-IODD1.1×ml	
Version V1.00 Releas	e Date 2018-	02-22 Copyright Copyright 2016. SMC Corporation Stamp 20459179
	Vender Name	SMC Comparation
🐼 IO-Link	Vendor Name	
	Vendor Text	
	Vendor UKL	
	Vendor ID	
	Device Family	ISE20B-L
	Device Name	
	Device ID	334 0x00014E Product ID ISE20B-L
IO-Link Revision	1.1	Data Storage Profile Characteristics
compatible with V1.0		Block Parameterization
Bitrate	COM2	Device Access Locks
MinCycleTime	2.3 ms	Local User Interface X
SIO mode	X	Local Parameterization
Process Data In/Out	2/0 Bytes	
ISE20B-L ISE20B-L-M		
Name ISE20B-L		Connection Type OtherConnectionT
Description Pressure Range	.01MPa	Description Lead wire with connector
		show more
		v v



Revision history

- A : Addition of IO-Link modules EX245-L#1. [April 2022]
- B : Addition of EX600-SEN7/8 and EX600-SEC3/4. [March 2023]
- C : Addition of EX600-MPN1, EX600-MEN1, EX600-MEC1, EXW1-BECAC, EXW1-BPNCA1 and EXW1-BENAC1
 - [December 2023]

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