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DOP-100 Series Transition Manual

www.deltaww.com

*We reserve the right to change the information in this manual without prior notice.



Preface

Thank you for purchasing this product. This manual provides information about the conversion from the DOP-B series HMI to the DOP-100 series HMI.

This manual includes:

- Replacement model selections
- Project conversion steps
- Software interface conversion and function differences
- Print function
- File encryption function
- COM port conversion
- Driver update

Product features:

Delta's all new advanced DOP-100 series HMI adopts the Cortex-A8 high-performance processor with high-brightness and high-contrast color display, as well as providing user-friendly operation interfaces. In response to the increasing popularity of cloud applications and smart manufacturing, the DOP-100 series HMI also supports network functions, such as FTP, e-mail, VNC remote monitoring, NTP network timing, etc.

How to use this manual:

When transitioning from DOP-B to DOP-100, you can use this manual as a reference for model selection, setup, and product usage. Please first read Chapter 1 before you start converting to the DOP-100 series HMI. You can also use the Table of Contents to quickly locate the information you need.

Delta technical services:

Please consult your Delta equipment distributor or Delta Customer Service Center if you encounter any problems.



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Replacement Model Selection



This chapter describes the steps to convert from the DOP-B series models to the DOP-100 series models.

1.1	Corresponding replacement models 1-2
1.2	Project conversion ······1-3



1.1 Corresponding replacement models

The DOP-100 series models support conversion from the DOP-B series models, as shown in the following table. When you use a DOP-100 series model to open a project file of the corresponding DOP-B series model, the software automatically converts it to the DOP-100 series model project. For example, if you use DOPSoft 4.0 to open a project file edited on DOP-B03S210, it automatically converts the project file to that of the corresponding model DOP-103BQ.

Compatible mo	Compatible models		Partially compatible models		
DOP-B series	DOP-100 series	DOP-B series	DOP-100 series	DOP-B series	
DOP-B03S210 DOP-B03S211	DOP-103BQ	DOP-B07S415* DOP-B07S411K DOP-B07S401K DOP-B07PS415	DOP-107CV	DOP-B05S111	
DOP-B03E211	DOP-103WQ	DOP-B07E415*	DOP-107EV	DOP-B08S515 DOP-B08E515	
DOP-B07SS411 DOP-B07S410	DOP-107BV	DOP-B07S515 DOP-B07PS515	DOP-107EG	DOP-B10S615 DOP-B10E615 DOP-B10S511 DOP-B10E515	
DOP-B07S411	DOP-107CV	DOP-B10S411	DOP-110CS	*Compatible	
DOP-B07E411	DOP-107EV	*The replacement mod	el DOP-107IV for	models will be released in	
DOP-B07E515	DOP-107EG	coming soon.	-DUIL41013	mid-2019.	

Compatible models indicate that the DOP-100 series models are the same as the DOP-B series models in terms of the mounting dimensions and number of COM ports. Partially compatible models indicate that the mounting dimensions are the same, but the number of COM ports is different^{*1}, so you need to note the number of COM ports when selecting the suitable model for transition. Incompatible models indicate that there is currently no corresponding model for transition, and the compatible models will be released in Q2 2019.

Note:

 In the partially compatible models, the DOP-B series has three physical COM ports, while the DOP-100 series has two physical COM ports. The replacement model DOP-107IV (coming soon) for DOP-B07S415 and DOP-B07E415 has three physical COM ports.



1.2 Project conversion

When you use DOPSoft 4.0 to open a DOP-B project file, the software automatically determines if there is a corresponding compatible model or partially compatible model. If there is, the project is automatically converted and opened on the DOP-100 series model; otherwise, a pop-up window prompts you to select a replacing DOP-100 series model. For example, if you use DOPSoft 4.0 to open a DOP-B03S210 project file, the software automatically converts and opens it as a DOP-103BQ project file. However, if you open a DOP-B05S111 project file, a window pops up for you to select the alternative DOP-100 series model (i.e. DOP-103BQ or DOP-107CV) because there is currently no corresponding model for transition.

HMI	DOP-107WV 65536 Colors	`
	DOP-100 series	
Wenn Text		
wiap lext		
	DOP-107WV 65536 Colors	
	DOP-110CS 65536 Colors	
	DOP-110WS 65536 Colors	



Α

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Software Interface Conversion

2

This chapter introduces the differences between the operation interfaces and functions for the DOP-B series and the DOP-100 series.

2.1	Butto	n 2-2
2.1	.1 E	Button color ····· 2-2
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2.6	File e	ncryption ·····2-11
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2.1 Button

2

2.1.1 Button color

Button fill style of the DOP-B series is fixed.

	DOP-B10E615	
File	DOPSoft - B10E615_PLCdownload - [Screen_1] Edit View Element Screen Tools Options Window Help Soft - B · C · S · S	
□ ≤ A 〒 Ⅲ	Return Value ####	****
	PLC download File Name	system
	Password	



- You can select [Fixed] or [Gradient] for the button fill style on the DOP-100 series.
- Buttons are displayed in fixed colors when a DOP-B project is converted to a DOP-100 project.

DOP-110CS

)
1

-		
DOPSoft - B10E615_PLCdownload - [Scre	en_1]	
; File Edit View Element Screen To	sols Options Window Help	
[D] ≈ H B ⇒ e X D D Q		
16 * 7 Arial	■ [本: 4] (本: 4] (本: 4] (本: 4] (本: 4] (本: 4] (本: 4) (本: 4) (本: 4) (h: 4) (h	
	· · · · · · · · · · · · · · · · · · ·	
Project a x	4 Screen_1 x	
商		
B-CI HMI		
Screen		
Gommunication Second Seco		1234
- Alarm	Return Value 1234	
Recipe		
History Buffer		
- Account Settings		
-X Configuration	PLC download File Name ABCDEFGHUKLMNOPQRST	
		system
Picture Bank		oyonani
Main		
-		
	Password ABCDEFGHIJ	

■ You can then change the fill style of the button to gradient.

	Maintained			×
	Preview	Main Main-2 Text Picture D	etails Macro Coordinates	•
PLC download	PLC download State: 0 Language: Language1 Element description: Maintained_000	Memory Write Address: \$100.0 Read Address: None Write Offset Address: None Read Offset Address: None Read Offset Address: None	Style Style: Standar Foreground Color: Blink: No Filled style: Fixed Gradier Fixed	rd ~



O Sound settings

2.1.2 Previous page

- DOP-B has two separate buttons for [Goto Screen] and [Previous Page].
- For DOP-B, you can only change the element function on the property window.

itary		
ned		
state		
alue		
instant		
nent		
ment	🖃 Others	
creen	Foreground Color	RGB(180, 180, 1
is Page	Shile	Standard
DateTime	Style	Stallualu
d Table Setup	Function	Goto Screen
assword	User Security Leve	Goto Screen
t Brightness	oser securicy zerv	Previous Page
curity	Interlock Address	Provious View
Menu	InterLock State	OII
ist	T .(
ture	Irigger	None
orage	Trigger Type	Before Writing
xport recipe		
on		
Change		
Export FileSlot		

- DOP-100 integrates [Goto Screen] and [Previous Page] into one button as [Goto Screen].
- For DOP-100, you can change the element function on the property window, as well as double-clicking the button element to go to the property setting window.

ON	Set to On									
orr	Set to Off									
	Momentary									
6	Maintained									
-	Multistate	Previous Page								×
	Set Value	Preview	Main	Main-2	Text	Picture	Details	Macro	Coordinates	
2	Set Constant		0110				1		1	
E	Increment		Style							
	Decrement		Style		S	andard 🗸	1			
6	Goto Screen				0	anoaro				
UL	System Date and Time		Foreg	round Color.		•				
	Password Table Setup		Fund	line	D	minus Des 1	1			
•	Enter Password		r uncu	1011.	G	oto Screen				
	Contrast Brightness	State:	Filled	style:	P	revious Page				
÷	Set Low Security	0			Pa	ige Up				
	System Menu									
0	Print Output	Language:								
•	Report List	Language1								
	Screen Capture									
	Remove Storage	Eterment descriptions								
•	Import/Export Recipe	Element description.								
D	Calibration	Goto Screen_008								
	Language Change									
	Import/Export FileSlot									
Đ	Multiple actions									



2.2 Security level and password

- For DOP-B, you do not need to enter a user account for the Security Level and Password.
- For DOP-100, you need to enter a user account for the Security Level and Password.

	DOP-B					DOP-100	
ord s	etting	×	Account and	Password			
vel	Password		_ & & 0		× 😢		
	00000000		Number	Account	Password	User duration(0~9999 Day)	Password duration(0~9999
	11111111		1	00	00000000	0	0
	22222222						
	33333333						
	4444444						
	55555555						
	66666666						
	7777777						

When you open a DOP-B project with DOP-100, the Security Level and Password is the same, meaning you only need to enter the password without a user account to log in.

DOP-B	DOP-100	
Security level 3 0 1 2 3 4 5 6 7 8 9 A B C D E F CLR Enter	Password 0 1 2 3 Def 4 5 6 7 < 8 9 A B CL C D E F EM	R IT

If you prefer to switch to the DOP-100 login mode, click 1 to change the Security Level

and Password login setting.

- 1	compt an	d Password	Account	t and I	Password			
ſ			- 🎎 🕹	0 🕻		× 🛞		
	**	0 🔹 🐯	Nur	nber	Account	Password	User duration(0~9999 Day)	Password duration(0~9999 Day)
	Level	Password		L	00	0000000	0	0
	0	0000000						
	1	11111111						
	2	22222222						
	3	33333333						
	4	4444444						
	5	55555555						
	6	66666666						
	7	77777777						



2.3 Multimedia

- DOP-B07E415, DOP-B07E515, DOP-B08E515, DOP-B10E515, and DOP-B10E615 models have the audio output function.
- Only DOP-107EG and DOP-110ES of the DOP-100 replacement models have the audio output function.
- If you open a DOP-B project with audio function on a DOP-100 replacement model that does not support this function, the interface for the audio output function is automatically removed and the [Audio Output Setting] in the [Options] drop-down list becomes unavailable.
- The following figures show the difference when you open a DOP-B07E415 project on DOP-107EV.

File	Edit View E	ilement Scree	en Tools Op	Configuration							
12	2 V Arial	X 9 ■ ⊡ ■ ●	iii A ii A ii A ii A ia (a) (a) (a) A ii A i	Main		Standa HMI	ard Type				
⊿	🔜 1 - Screen_1						OOP-B0	7E415 65	536 Colors		\sim
				Control Block		HMI	Rotatio	n Angle		0 ~ d	egree
A ∏ ⊞	Sound	Play		Print		Non- Write	volatile e cache s	data loca size of ext	tion ernal storage	Setting None	~
	A Sound	File Setting									
	Control list	t				Play list					
	Re	ad address	Play mode	End mode	^	Add	l play ite	m 📐 Re	move play item	1	
	1 \$1	.2	Play	Stop			Mode	Name	Source		
	2 No	one				1	Fie	Sound0	D:\Entertainme	ent/MP3/五目チ。	ft.S
	3 No	one				<u> </u>		5001100	or parter carrier	and a star store of	110
	4 No	one									
	5 No	one			-						
		one									
	9 14	200			-						
	9 N	000									
	10 No	one									
	11 No	one									
	12 No	one									
	13 No	one									
	14 No	one									
	15 No	one									
	16 No	one									
	17 No	one			~						
	<			>							





Configuration	
- Main	Main
- Non-Voiatie - Security Level and Password - Global Keypad Settings - Others - Control Block - Real Time Clock - Print - Default Rect Leca	Project and Basic Settings Name NewHMI HMI Type DOP-107EV 65536 Colors





2.4 Multi-language input

- The Multi-language Input function is only available on the following models: DOP-103WQ, DOP-107WV, DOP-110WS, DOP-112WX, DOP-112MX, DOP-115WX, and DOP-115MX.
- You can see the Multi-language Input option on the interface for the models that support this function:



Configuration					×
Main Non-volatile Security Level and Password Global Keypad Settings Others Control Block Real Time Clock Print Default Boot Logo	Multi-language Settin Support Langs English Traditional Chinese Simplified Chinese French German	ıgs	☐ Japan ☐ Spanish ☐ Portuguese ☐ India ☐ Turkish	□ Persian □ Italian □ Polish □ Korean	
Network Settings Remote Desktop and Data Collectio SMTP FTP Multi-language Multi-language Settings	C Russian	System default	Arabic		
 Industry application Electronic record 	Default Font	Anai	~		

 Currently, DOP-103WQ is the replacement model for the DOP-B series that supports the Multi-language Input function.



2.5 Printer

The specified printer of the DOP-B project changes to ePrinter by default when converted to a DOP-100 project.

		DOP-B
Configuration		×
Main Main Control Block Print Default	Standard Printer HP LASERJET 1022N Paper A4 Quality 72 DPI Margin Top: 0 mm	Interface ● USB 1.1 Ethernet ○ COM Port Data Bits 8 Bits Parity None Baud Rate 9600
Others	Bottom: 0 imm Left: 0 imm Right: 0 imm Print Size Width 210 imm Ratio: 100 im % Height 297 imm Ratio: 100 im %	 ● Vertical → Horizontal → Horizontal → Li0 X 297 mm → Auto Next Page
		OK Cancel

DOP-100 Configuration × 🖃 Main Print Non-volatile Security Level and Password Standard - Global Keypad Settings 🚕 ePrinter Printer ~ Others ~ A4 72 DPI \vee Control Block Quality Paper Real Time Clock Print Default Margin Interface USB Drive Ethernet ÷ mm Boot Logo Top: 0 OCOM Port Multi-language 0 📩 mm Bottom: Industry application Electronic record IP address 0.0.0.0 ÷ mm Left: 0 Port 0 🔹 mm 0 Right: Print Size 210 0 mm Width 100 * Ratio: Direction Vertical O Horizontal 297 ‡ mm Height 100 🚖 % Ratio: H 210 X 297 mm OK Cancel

The Report List button of the DOP-B project changes to the Print Output button when converted to a DOP-100 project.

	DOP-B	
	Report List	
Report List		×
Preview	Main Text Picture Details Macro Coordinates	
	Style Detail	
Report List	Style: Standard V Report Device: Printer V Foreground Color: V	

DOP-100

	n Report List	
Print Output		×
Preview	Main Main-2 Text Picture Details Macro Coordinates	
	Style	
Report List	Style: Standard V	
	Foreground Color:	
	Filled style: Fixed \checkmark	



2.6 File encryption

Encrypt files from the HMI end:

- You can encrypt files from the HMI end with DOP-B.
- You cannot encrypt files from the HMI end with DOP-100.





Encrypt files from the computer end:

■ DOP-B uses [Enable USB updating check] to encrypt files.

50	Standard		Show disk access error message	
Main	НМІ Туре		🗹 Alarm	Recipe
	DOP-B07\$415 65536 Colors	~	History	
ntrol Block	HMI Rotation Angle	0 v degree		
	Non-volatile data location	Setting	Startup Delay Time	0 🔹 (s)
Print	Write cache size of external storage	None V	Clock Macro Delay Time	100 🌲 (ms)
7		1.010	Clock Macro Priority	Low ~
Default	Password	12345678	Background macro update cycle	1 Lines
5%	Starting Level	0	System Message Language	
Others	oraning 2010		Language	
	☐ Insufficient occurred level camin	dar	Traditional Chinese	1. I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I
	Don't show password input wind	ow when lo	Spanish	
	Check password when download	program	English	
	Buzzer ON/OFF			
	Enable LICB undating shark			
	Prevent upload			

DOP-100 uses [Create Screen Data File...] and [Create Auto Update Data File] to encrypt files.

File	Edit View Element Screen Tools	
	New	
	Open	
	Close	
Ш	Save	
	Save As	Setting X
	Create Screen Data File	
	Create Auto Update Data File	✓ Enable Protection
	Open Screen Data File	Password 12345678
	Creat Download Screen Exe. File	Outent Falder
	Password Protect	
	D.i.e.(D)	
•		
	Print Preview(V)	OK Cancel
	Print settings (R)	



2.7 Conversion of COM port

Transitioning from DOP-B to DOP-100 does not cause changes to the COM port. Only the communication interface switches from COM1 to COM2 when converting from DOP-B03S210 and DOP-B07S410.

DOP-B03S210

When you set COM1 of DOP-B03S210 as RS422, it automatically converts to COM2 as RS422 on DOP-103BQ.

	D	OP-B0	3S210	
Communication Settin	ng			
		Communication S	etting	
- · · · · · · · · · · · · · · · · · · ·	Connection			
COM1	Link Name	Link1		
	Manufacturers	Delta		~
	series	Delta DVP PLC		~
	Main Communication Parameter HMI Station Interface Data Bits Stop Bits Baud Rate Parity	0	Controller PLC Station Password Comm. Delay Time(ms) Timeout(ms) Retry Count	1 12345678 0 1000 2 1000
Comm. Interrupt	3 times then ignore			
				OK Cancel



inication Sett	ings			
-		Communication S	ettings	
COMI	Connection			
00111	Link Name	Link1		
(• ••••• ••	Manufacturers	Delta		~
COM2	series	Delta DVP PLC		\sim
	HMI Station Interface Data Bits Stop Bits Baud Rate Parity Bits	0	PLC Station Password Comm. Delay Timeout(ms) Retry Count	1 • 12345678 0 • 1000 • 2 •
	C Optimize		For communication	ot used



DOP-B07S410

When you set COM1 of DOP-B07S410 as RS422, it automatically converts to COM2 as RS422 on DOP-107BV.

	DO	P-B0	7S410	
Communication Setting	9	Communication	atting	*
COM1	Connection Link Name Manufacturers series	Link1 Delta Delta DVP PLC		~
	Main Communication Parameter HMI Station Interface Data Bits Stop Bits Baud Rate Parity	0	Controller PLC Station Password Comm. Delay Time(ms) Timeout(ms) Retry Count	1 12345678 0 1000 2 •
	Ø Optimize			
Comm. Interrupt	3 🗘 times then ignore			OK Cancel



		0		
-		Communication Se	ttings	
COM1	Connection			
	Link Name	Linkl		
	Manufacturers	Delta		~
COM2	series	Delta DVP PLC		~
	ECommunication Parameter HMI Station Interface Data Bits Stop Bits	0	PLC Station Password Comm. Delay Timeout(ms)	1
	Baud Rate	9600 ~	Retry Count	2
	Parity Bits	Even ~	For communication	Not used 🗸 🗸
	✓ Optimize			



2.8 Update ICD OpenGL driver

After compiling the DOP-100 screen, an OpenGL driver error message pops up.



Go to the following link to download the latest driver:

https://downloadcenter.intel.com/download/27484/Graphics-Intel-Graphics-Driver-for-Windows-15-65-?product=80939



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