

Automation for a Changing World

Delta Human Machine Interface DOP Series



www.deltaww.com



One Touch Gives You Limitless Possil

Meets Customer Needs. Satisfies a Variety of Applications. Provides Multiple Functions. Creates

A Wide Range of Options

Three serial communication interfaces (RS-232/RS-422/RS-485), USB disk, Ethernet, audio output, SD card and more are supported for various applications.

Powerful Controller Drivers Support

Not just Delta industrial automation products, but more than 30 brands, and over 100 models of PLCs or controllers can be connected for effortless communication and versatile operation.

Motio

Beautiful Display



Huma

Beneficial Featur



bilities with HMI

s the Ultimate FA Equipment.

High Quality and Full-Color Display

Energy Saving and Environmental Automation

All models are equipped with LED backlights which provide energy-efficient lighting that is made without mercury, reduces energy use and CO2 emissions, and protects the environment. A full 65,536-color display is available on all models. With a whole new 2D drawing technique, the screen resolution is enhanced for more realistic images and for more colorful and vivid displays.



es



Product Line-up

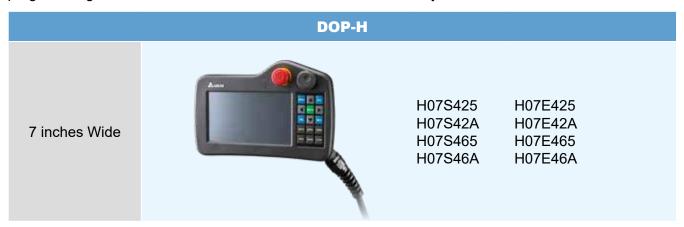
DOP-B series

The DOP-B series provides various types and different sizes of touch panel HMIs with multiple dimensions and colors, and also offers fast and convenient control functions to meet the diverse application requirements demanded of industrial automation machines.



DOP-H Series

The DOP-H series provides handheld type HMIs and customized teaching pendants for controlling and programming the motion of robot arms and other motion control systems.



DOP-W Series

The DOP-W series offers large-size HMIs that come with high resolution and high brightness touch screens, and should be your first choice to meet customer needs for a wide range of high-end industrial automation applications.







High Quality Display



65,536-color high quality TFT display offers more realistic and vivid images to capture and visualize system and manufacturing processes more quickly.

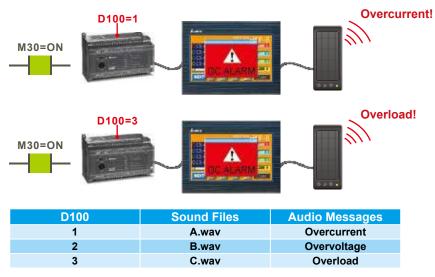
Audio Output Interface



In case of errors, an alarm alerts users via an audio message in real time.

speaker using 3.5 mm

> As the broadcast of alarms is triggered by the corresponding bit, the alarm messages can be played and output in different sound files by setting values of word registers.



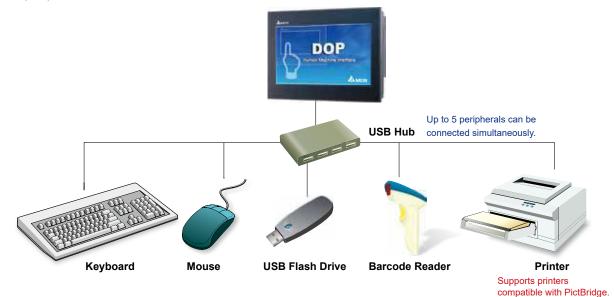
Supports Various Peripherals via USB Hub

Slave (USB-type B) Compatible with Windows Vista / Windows 7 Screen data can be transferred DOP rapidly via USB connection. ******* Up to 480Mbps high-speed data transfer via USB v2.0 PLC Programming Software: WPLSoft USB **RS-223** DOP រមហាមក *Supports Delta DVP series PLC only. T.m.

Using the bypass function, enable monitoring functions and modify PLC programs directly via the USB connection.

Master (USB-type A)

Various peripherals can be connected via a USB Hub.



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SD Card / USB Disk Versatile Storage Interface

- Exploiting the convenience of an SD card or USB disk, screen data transfer and collection can be quickly performed and the storage capacities of the HMI can be easily increased. No need to worry about data capacity of excessive history and recipe data
- SD card and USB disk are in FAT32 format, fully compatible with Microsoft Windows and allow filenames that exceed eight characters in length



The recipe data can be saved in CSV format and easily edited on an external PC in Excel to effectively save PLC memory.



History and alarm information can also be saved in CSV format and stored to the SD card / USB disk.

- Multiple project screen data can be saved in SD card / USB disk simultaneously and transferred to HMI. No need to connect to a PC
- The data saved in an SD card / USB disk can be encrypted and the number of copies can be limited to protect the programs from unauthorized use



- PLC ladder diagrams can be transferred and backed up via SD card / USB disk even in a location where an external PC is not available
- SD card / USB disk are capable of storing several PLC ladder diagrams













Support Delta DVP series PLC only.

PLC Ladder Diagrams

USB disk SD

SD Card



Multilingual Display

Main Test Coordinateo

Up to 32 languages are available. No need to redesign the screen data! A benefit for marketing the equipment to manufacturers and end users around the world.



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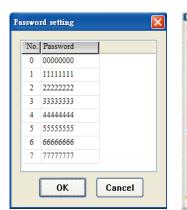
Password Settings

Provides 8 levels of passwords to set user security and prevent improper use. Only the security level that is equal to or higher than the current setting can use the element.

Element Invisible Function

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The element on the screen can be hidden by triggering the corresponding bit.



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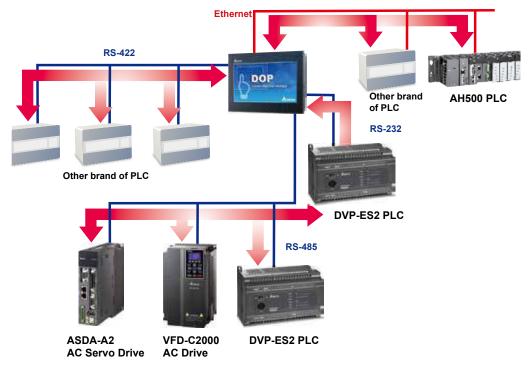




Provides Diverse Communication Interfaces

Easy to communicate with more than 30 brands of PLCs/Controllers

All DOP series models support RS-232/485/422 communication interfaces and over 20 different PLC/Controller drivers. With the aid of an Ethernet interface, it is possible to use four communication interfaces at the same time, easily connecting to various industrial automation devices for a complete communication network link managed by Delta's new DOP series.



VGA Model

DOP-B10VS511 supports VGA video input which integrates live video and HMI display into one unit. Incorporated with Delta's DMV series machine vision system, Delta offers an integrated solution that delivers precise and reliable control to meet the needs of industry upgrades and bring benefits to our customers around the world.

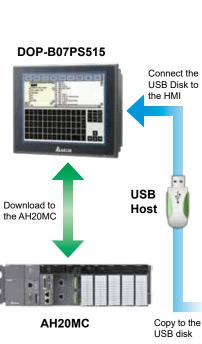


Integrates Delta Professional Functions (PS Models Only):

G-Code

- Supports Delta's motion controllers: DVP-10MC / DVP-20PM / AH20MC
- Capable of viewing and changing the G-code files with the HMI
- Supports serial and Ethernet communications







No0 G01 X51.40526 10.00449 N60 G01 X54.54.19628 Y9.64749 N70 G01 X54.54002 Y10.03007 N80 G01 X54.61772 Y10.20689 N90 G01 X54.69736 Y10.58087 N100 G01 X55.03397 Y11.59650 N110 G01 X55.22240 Y12.08614 N120 G01 X55.52968 Y12.78773

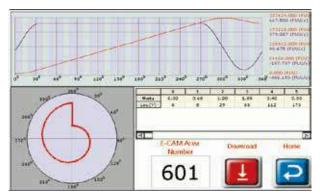
Electronic Cam (E-Cam) Curve Table

- Supports ASDA-A2 series servo drives
- A personal computer is not required. Electronic cam curves can be generated on HMI and downloaded to the ASDA-A2 series servo drive directly



Supports E-Cam table macro for making E-Cam curve on HMI

- Auto rotary shear with sealing zone
- Indirect printing
- Auto rotary shear cos compensation



Supports cubic curve manual creation

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DOP-W Features



The Ultimate in Industrial Versatility

- 1GHz high speed processor for higher computing performance
- Aluminum enclosure: greater vibration resistance and higher tolerance for ambient environments compared with plastic enclosure.
- The enclosure with dark gray mold texturing is easily cleaned and ideal for the medical and food sectors.
- 1024 x 768 pixels high resolution and high brightness display (W127B: 500 cd/m², W157B: 450 cd/m²)
- 256MB Flash ROM
- Highly reliable touch panel with min. 10,000,000 touches

Front Speaker

- The built-in stereo amplifying speaker provides efficient alarm notifications. No additional speaker is required.
- Apart from replacing general alarm with buzzers, functions for playing recorded voice and reminders are available for multiple applications.
- Mechanism design breakthrough. The front panel including the front speaker has acquired the IP65 waterproof certificate.





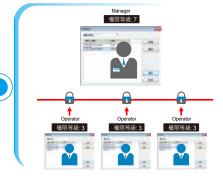
Multiple Peripheral Interfaces

- Supports 2 COM Ports
- Supports 2 Ethernet Ports
- Supports 3 USB Host 2.0 Ports
- Supports SD card
- Apart from traditional mounting, DOP-W also supports the VESA standard mounting interface making wall mounts easier.
 *VESA mounting interface is only available on devices above 12 inches.

Multi-User Authority Management

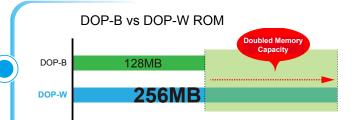
This function allows users to assign authority levels and register passwords to set permissions for different user groups for security control. No need for third-party configuration and set-up costs.

- 8 levels of user authority Level: 0 ~ 7
- 8 sets of user accounts with passwords for each user authority



High-Capacity Memory

Increased memory capacity stores more nonvolatile data, such as alarm messages and historical records than ever before for power-loss protection.



Home Par Web Browser Office Of

More Powerful Remote Monitoring Function

- Compatible with eRemote
- Supports VNC Server
- Monitoring by eRemote software or web browser on PC
- Apps for eRemote or VNC Client support Apps on Android devices
- VNC Client supported Apps on iOS devices
 * JAVA is required in web browsers.

Two Individual Ethernet Ports

Two individual Ethernet ports are equipped as standard, one is for HMI communication and the other is for external I/O for quick and easy integration.





Multilingual Display

In addition to English and numbers, 16 languages are supported for a more localized interface

* Supports English, Traditional Chinese, and Simplified Chinese only during the launching period.
 * Other languages such as Arabic, French, German, Hebrew, Hindi, Portuguese, Spanish, Japanese, Korean, Thai, Turkish, Russian, and Persian are continually added.

Video Player

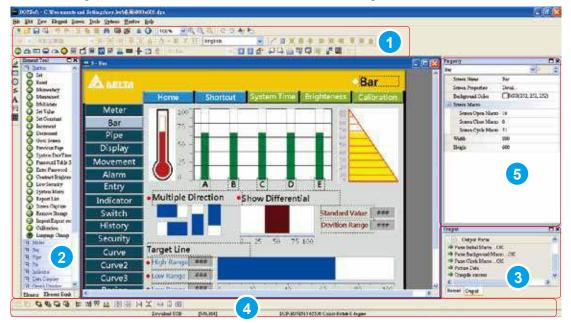
A new video player with self-defined playlist allows users to manage the list based on different applications. * Supported Format: WMV





DOPSoft

The all new and upgraded configuration software provides complete functions and a user-friendly operator interface. Make editing easier than ever with a whole new level of design.



1) Toolbar

Actions such as edit, save, upload and compile can be executed easily just by clicking the attractive and easy-to-see icons on the toolbar.

(3) Output Window

The Output Window displays all the editing actions and output messages when the compile function is enabled. Once an error occurs, the error messages are displayed in Output Window as well.

5) Property Table

The Property Table displays the element property settings for each element.

2) Element Tool Window

The Element Tool Window provides a wide variety of element icons for selection. Use the mouse to select the desired element icon and drag it onto the work place to create a new element.

4) Layout Toolbar

The Layout Toolbar offers Bring to Front, Send to Bottom, Align, Across / Down Space Evenly, Make Same Size and other functions for the benefit of creating intricate and beautiful elements.

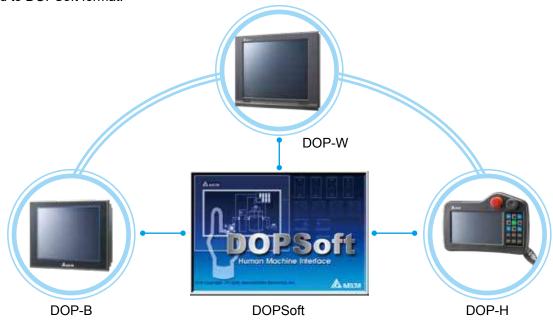
Picture Bank

Newly designed picture bank offers more colorful and attractive elements.



Convenient Screen Data Conversion

Compatible with all DOP series, project files can be easily upgraded and converted to DOPSoft format.



The screen data can be converted to different models even if the display size is not the same. The same project can be applied on different models.



*After the screen data is converted, it still needs to confirm the element position, text size and other settings.

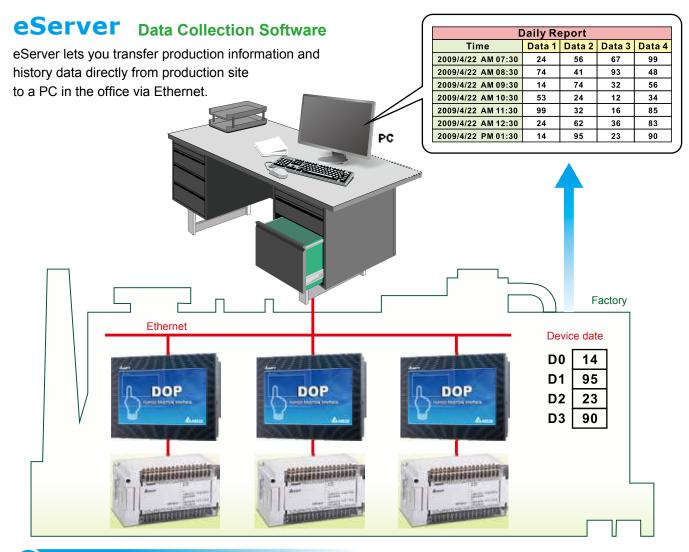
Minimum System Requirements of DOPSoft

Hardware / Software	System Requirements					
CPU	Pentium4 1.6GHz or greater is recommended					
Memory	2G MB and above is recommended					
Hard Disk	Capacity: 400MB and above					
Monitor	Supports resolution: 800 x 600 or higher full-color display					
Printer	Printer compatible with Windows 2000 Windows XP / Windows Vista / Windows 7					
Operating System	Windows 2000 / Windows XP Windows Vista / Windows 7					

*Users can download the DOPSoft configuration software and the user manual at Delta's website via the following link: http://www.deltaww.com



Solution for Constructing a Network between Office and Production Site via Ethernet



Excel Sampling Data

- Collected data can be saved in user-defined Excel files according to purpose and to easily create production reports
- If the formulas in the Excel file are set in advance, the production data, i.e. defective rate, average working hours and capacity utilization rate, and more can be calculated in real time while production data is recorded
- Production data can be saved in daily reports, weekly reports, monthly reports, and others automatically under different settings.

2) Database Sampling Data

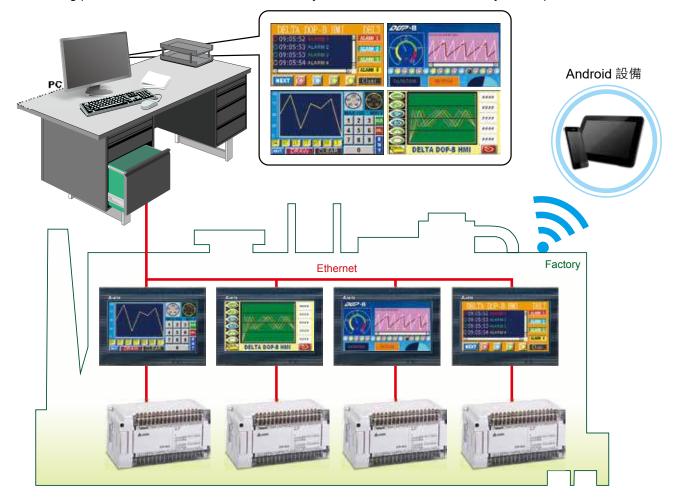
Users can access any database via ODBC (Open Database Connectivity) interface

3) Recipe Data Transfer

Users can transfer and backup the recipe data via eServer easily

eRemote Remote Control Software

eRemote lets you view and monitor the same screen shown on the HMI at the production site, and control the manufacturing process via Ethernet. No matter where you are, remote control is easily accomplished.



Minimum System Requirements for eServer / eRemote

Hardware / Software	System Requirements						
CPU	Pentium 4,1.6GHz or greater is recommended						
Memory	2G MB and above is recommended						
Hard Disk	Capacity: 100MB and above						
Monitor	Supports resolution: 1024 x 768 or higher full-color display.						
Printer	Printer compatible with Windows 2000 / Windows XP / Windows Vista / Windows 7						
Operating System	Windows 2000 / Windows XP / Windows Vista / Windows 7						

*Users can download the eServer / eRemote software and the user manual at Delta's website via the following link: http://www.deltaww.com

System Re	System Requirements of eRemote App					
Operating System	Android 4.1.2 and later versions					
Storage Capacity	860 KB and above	0.044244				



Specifications

DOP-B Series

	JUCHES										
	MODEL	DOP-B03S211	DOP-B03E211	DOP-B05S111	DOP-B07S410	DOP-B07S411	DOP-B07E411	DOP-B07S401K DOP-B07S411K	DOP-B07S415	DOP-B07PS415	DOP-B07E415
	Display Size and Type	4.3" T	FT LCD	5.6" TFT LCD			7"	Widescreen TFT I	LCD		
	Display Colors				65536 colors						
LCD	Resolution (pixels)	480	x 272	320 x 234				800 x 480			
MODULE	Backlight					LED Ba	ack Light				
	Luminance (cd/m ²)	280	400	200	250	250	250	250	350	350	350
	Backlight Life (hours)	20,000	10,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
	MCU					400	MHz				
Flas	sh ROM (Bytes)	128	3 MB	128 MB	4MB			128	3 MB		
F	RAM (Bytes)		64MB					64MB			
Backu	p Memory (Bytes)		16MB		32k			16	MB		
	Buzzer				Multi-	Tone Frequency	(2K~4K Hz) /	85dB			
	AUX	Ν	I/A	N/A				N/A			Stereo output
	Ethernet	N/A	1 Port (Note 2)	N/A	N	/A	1 Port (Note 2)		N/A		1 Port (Note 2)
N	lemory Card	Ν	I/A	N/A		Ν	I/A		SD	card (supports SD	HC)
	loniory ourd								00		110)
	USB		1 USB Host Ver 1. 1 USB Client Ver 2		1 USB Client Ver 2.0		1	JSB Host Ver 1.1 /	1 USB Client Ver	r 2.0	
Serial	COM1		ports hardware bl) / RS-485	RS-232 (Supports hardware flow control) ^(Note 2)	RS-232 (Supports hardware flow control)/ RS-485 / RS-422	RS-2	232 (Supports har flow control)	dware	RS-2	232 (Supports hard flow control) ^(Note 2)	lware
COM Port	COM2	RS-422 / RS-S485	RS-422 / RS-485 ^(Note 2)	RS-232 / RS-485 ^(Note 2)	N/A	1	RS-232 / RS-48	35	RS-232	/ RS-422 / RS-	485 ^(Note 2)
	COM3	Ν	I/A	RS-422 / RS-485 ^(Note 2)	N/A	I	RS-422 / RS-48	35	RS-232 / RS-422 / RS-485 ^(Note 2)		
	VGA Input	Ν	I/A	N/A				N/A			
	ta Professional gration Function	Ν	I/A	N/A			N/A			YES	N/A
	unction Key	Ν	I/A	N/A		N/A		8		N/A	
Perpetu	ual Calendar (RTC)	Built-in									
Co	ooling Method					Natural air	r circulation				
Sa	afety Approval					CE	/ UL				
Wat	erproof Degree					IP65 / L	JL type 4x				
Opera	tion Voltage (Note 3)					DC +24V (-109	% ~ +15%) ^(Note2)				
Volt	age Endurance			A	C500V for 1 minut	te (between charg	ging DC24 termir	al and FG termina	ls)		
Power	Consumption (Note 5)	2.64W	2.64 W	3.0W	3.5 W	4 W	4 W	4 W	5W	5 W	7.5W
Ва	ackup Battery					3V lithium batt	ery CR2032 x 1				
Bac	kup Battery Life			It depends or	n the temperature	used and the cor	nditions of usage	, about 3 years or i	more at 25 °C		
Op	Operation Temp.				0°C ~ 50°C						
S	Storage Temp.			-20°C ~ +60°C							
Ambient Humidity		109	% ~ 90% RH (0 ~	40° C), 10% ~ 55	5% RH (41 ~ 50 °	C), Pollution Degre	ee 2				
	Vibration			IEC 61131-2	2 compliant 5Hz ~	8.3Hz = Continu	ous: 3.5mm, 8.3ł	Hz ~ 150Hz = Cont	tinuous: 1.0g		
	Shock			IEC 60	068-2-27 complia	nt 15g peak for 1	1 ms duration, X,	Y, Z directions for	6 times		
(W):	Dimensions x(H)x(D)mm	129 × 103 × 39	129 x103 × 39	184 × 144 × 50	215 × 161 × 35.3	215 × 161 × 50	215 x 161 x 50	215 × 161 × 50	215 × 161 × 50	215 × 161 × 50	215 × 161 × 50
	Panel Cutout V)x(H)mm	118.8 × 92.8	118.8 × 92.8	172.4 × 132.4	196.9 × 142.9	196.9 × 142.9	196.9 x 142.9	196.9 × 142.9	196.9 × 142.9	196.9 × 142.9	196.9 × 142.9
	Weight		Approx. 264 g	Approx. 670 g	Approx. 700 g	Approx. 820 g		Approx. 820 g	Approx. 970 g	Approx. 970g	Approx. 970 g

The half-life of backlight is defined as original luminance being reduced by 50% when the maximum driving current is supplied to HMI.
 With built-in isolated power circuit.
 Please use isolated power supply.
 Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.
 The value of the power consumption indicates the electrical power consumed by HMI with no peripheral devices connected. To ensure normal operation, it is recommended using a power supply with a capacity 1.5 ~2 times the value of the power consumption.
 The content of this catalogue may be revised without prior notice. Please consult our distributors or download the most updated version at http://www.deltaww.com

DOP-B07S515	DOP-B07PS515	DOP-B07E515	DOP-B08S515	DOP-B08E515	DOP-B10S511	DOP-B10VS511	DOP-B10E515	DOP-B10PE515	DOP-B10S411	DOP-B10S615	DOP-B10E615
	7" TFT LCD		8" TF	TLCD		10.4" T	FT LCD		10.1	" Widescreen TFT	LCD
					65536	6 colors					
	800 x 600		800 :	x 600		800	x 600		800 x 480	1024	x 600
					LED Ba	ack Light					
450	450	450	500	500	300	300	300	300	300	200	200
20,000	20,000	20,000	25,000	25,000	10,000	10,000	10,000	10,000	20,000	15,000	15,000
					400	MHz					
	128 MB		128	MB		128	MB			128 MB	
	64MB		64	MB		64	MB			64MB	
	16MB		16	MB			MB			16MB	
				Multi		(2K~4K Hz) /	85dB				
	/A	Stereo output	N/A	Stereo output		//A		output		/A	Stereo output
N	/A	1 Port ^(Note 2) SD card	N/A	1 Port (Note 2)	N	I/A	1 Por	t (Note 2)	N	/A	1 Port ^(Note 2)
SD card (sup	ports SDHC)	(supports SDHC)	SD card (sup	oports SDHC)	Ν	//A	SD card (sup	oports SDHC)	N/A	SD card (sup	ports SDHC)
				1 ປ	ISB Host Ver 1.1	/ 1 USB Client Ver	2.0				
	32 (Supports hard flow control) ^(Note 2)	lware	RS-232 (Supp flow con	oorts hardware trol) ^(Note 2)	RS-232 (Supports hardware flow control)	RS-2	32 (Supports hard flow control) ^(Note 2)		RS-232 (Supports hardware flow control)	RS-232 (Supp flow cont	
RS	-232 / RS-485 ^{(No}	ote 2)	RS-232 / RS-42	22 / RS-485 ^(Note 2)	RS-232 / RS-485	RS-232 / RS-485 ^(Note2)	RS-232 / RS-42	22 / RS-485 ^(Note 2)	RS-232 / RS-485	RS-232 / RS-42	2 / RS-485 ^(Note 2)
RS	-422 / RS-485 [™]	ote 2)	RS-232 / RS-42	22 / RS-485 ^(Note 2)	RS-232 / RS- 422 / RS-485	RS-232 / RS- 422 / RS- 485 ^(Note2)	RS-232 / RS-42	22 / RS-485 ^(Note 2)	RS-232 / RS-422 / RS-485	RS-232 / RS-42	2 / RS-485 ^(Note 2)
	N/A		N	/A	N/A	Resolution 800x600 pixels Scanning Frequency 56 Hz / 60 Hz	N	I/A		N/A	
N/A	YES	N/A	N	/A		N/A		YES		N/A	
	N/A		N	/A		N	/A			N/A	
					Bu	ilt-in					
					Natural ai	r circulation					
					CE	/ UL					
					IP65 / U	JL type 4x					
					DC +24V (-10	% ~ +15%) ^(Note2)					
				AC500V for 1 minu	ite (between char	ging DC24 termina	al and FG termina	ls)			
7.68 W	7.68 W	7.68 W	5.2W	7.8W	6.1W	6.1W	9.6W	9.6W	6.6W	12 W	12W
					3V lithium batt	ery CR2032 x 1					
			It depends	on the temperature	used and the co	nditions of usage,	about 3 years or	more at 25 °C			
					0°C ~	~ 50°C					
					-20°C	~ +60°C					
			10	0% ~ 90% RH (0 ~	40° C), 10% ~ 55	5% RH (41 ~ 50 °C	c), Pollution Degre	ee 2			
				-2 compliant 5Hz ~							
			IEC 6	0068-2-27 complia	int 15g peak for 1	1 ms duration, X,	Y, Z directions for	6 times			
184 × 144 × 50	184 × 144 × 50	184 × 144 × 50	227.1×174.1×61	227.1×174.1×61	299 × 224 × 51.1	299 × 224 × 51.1	299×224×51.1	299 × 224 × 51.1	272 × 200 × 61	272 × 200 × 61	272 × 200 × 61
172.4 × 132.4	172.4 × 132.4	172.4 × 132.4	219.4 × 166.5	219.4 × 166.5	285.2×210.2	285.2×210.2	285.2 × 210.2	285.2×210.2	261.3 × 189.3	261.3 × 189.3	261.3 × 189.3
Approx. 800 g	Approx. 800 g							Approx. 1700 g	Approx. 1520 g	Approx. 1520 g	Approx. 1520 g
1)	The half-life of ba	acklight is defined	d as original lumina	ince being reduced	d by 50% when th	e maximum drivin	g current is suppli	ed to HMI.			

The half-life of backlight is defined as original luminance being reduced by 50% when the maximum driving current is supplied to HMI.
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 Please use isolated power supply.
 Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.
 The value of the power consumption indicates the electrical power consumed by HMI with no peripheral devices connected. To ensure normal operation, it is recommended using a power supply with a capacity 1.5 ~2 times the value of the power consumption.
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Specifications

DOP-H Series

	Model	DOP-H07S425	DOP-H07S465	DOP-H07E425	DOP-H07E465				
		DOP-H07S42A DOP-H07S46A DOP-H07E42A DOP-H07E46A							
	Display Size and Type	7" Widescreen TFT LCD							
	Display Colors	65536 colors							
LCD MODULE	Resolution (pixels)	800 x 480							
MODULE	Backlight	LED Back Light							
	Luminance (cd/m ²)			50					
	Backlight Life (hours) ^(Note 1)			000					
	MCU			MHz					
FI	ash ROM (Bytes)			MB					
	RAM (Bytes)			MB					
Baci	kup Memory (Bytes)			MB					
	Buzzer			(2K~4K Hz) / 80dB					
	Audio Output			/A					
	USB			ent Ver 2.0					
	SD		, , ,	oports SDHC)					
:	Serial COM Port		RS-485 ^(Note 2)		/A (Note2)				
	Ethernet	1	J/A	1 Port	ts ^(NOIE2)				
	Function Key			5					
Ca	ble Length & Type			Name: 5 - 5 m Name: A - 10 m					
l	Emergency Stop	B-contact: 2 Rated voltage: DC 30V Maximum rated current: 1A Minimum allowable load: D Complies with IEC60947-5		5, EN60947-5-5, UL 508, and C	CSA C22.2 No.14, GB 14085.				
3-Pos	ition Operation Switch		DC 3 V/5mA 7-5-8, IEC60947-5-1, EN60947 e with ISO12100-1, -2/EN12100						
	Handwheel	N/A Rated Voltage: <dc 24v="" in<br="">Resolution: 50(P/R) Rated Voltage Resolution: 50(P/R) N/A Output Pulse: Square Output Pulse Output Phase: A, B N/A Output Phase Phase difference of A and B: 90° ± 45° 90° ± 45° Max. Frequency response: Max. Freque 200 Hz</dc>							
Pe	erpetual Calendar		Bui	lt-in					
	Cooling Method		Natural	cooling					
	Safety Approval		C	E					
Waterpro	of Level of Panel Display		IP	55					
Ope	eration Voltage (Note3)		DC +24V (±15%) (with built-	in isolated power circuit) ^(Note2)					
V	oltage Endurance	AC500V for 1 minute (between charging (DC24V terminal)							
ů –		and FG terminals)							
	er Consumption (Note 5)	5.6W							
	Backup Battery	3V lithium battery CR2450 × 1							
Backup Battery Life		About 5 years or more at 25oC but subjects to the temperature and the conditions during usage.							
Operation Temperature		0°C ~ 40°C							
	orage Temperature		-20 °C ~ +60 °C,						
Ope	erating Environment	10% ~ 90% RH [0 ~ 40 $^\circ C$] ; 10% ~ 55% RH [41 ~ 50 $^\circ C$] ; Pollution Degree 2							
	Vibration	Conforms to IEC61131-2; Continuous: 5Hz ~ 8.3Hz 3.5 mm, 8.3Hz ~ 150Hz 1G							
	Shock	Conforms to IEC60068-2-27; 11ms, 15G Peak , X, Y, Z direction for 6 times							
Dimensions	(W) × (H) × (D) mm	25	7.4 × 170.3 × 71.8 (Emergency s	stop switch and hook are inclue	ded.)				
	Weight		750 g (cabl	e excluded)					

1) The half-life of backlight is defined as original luminance being reduced by 50% when the maximum driving current is supplied to HMI.
2) With built-in isolated power circuit.
3) Please use isolated power supply.
4) Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.
5) The value of the power consumption indicates the electrical power consumed by HMI with no peripheral devices connected. To ensure normal operation, it is recommended using a power supply with a capacity 1.5 ~2 times the value of the power consumption.
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DOP-W Series

	MODEL	DOP-W105B	DOP-W127B	DOP-W157B				
	Display Size and Type	10.4" TFT LCD	15" TFT LCD					
	Display Colors		65536 colors					
LCD MODULE	Resolution (pixels)	800 x 600 1024 x 768						
LCD MODULE	Backlight		LED Back Light					
	Luminance (cd/m ²)	300	500	450				
	Backlight Life (hours) ^(Note 1)	10,000	30,000	100,000				
	MCU		1 GHz					
Flas	sh ROM (Bytes)		256 MB					
ſ	RAM (Bytes)		256 MB					
Ba	ackup Memory	800000	numbers of data (alarm data + historic	al data)				
	Buzzer	Mul	ti-Tone Frequency(2K~4K Hz)/ 8	0dB				
I	Audio Output	Stereo output	Stereo output / Bui	ilt in 1.5W Speaker				
	USB	1 USB Host Ver 2.0	3 USB Ho	ost Ver 2.0				
	SD		SD card (supports SDHC)					
	COM1		N/A					
Serial COM Port	COM2	RS-232 / RS-422 / RS-485 ^(Note 2)						
	COM3	RS-232 / RS-422 / RS-485 ^(Note 2)						
	Ethernet	2 Ports ^(Note2)						
Perpetr	ual Calendar (RTC)	Built-in ^(Note5)						
C	ooling Method	Natural air circulation						
Si	afety Approval	CE / UL						
Wa	terproof Degree	IP65 / UL type 4x	IP65 / U	L type 1				
Opera	ation Voltage (Note3)	DC +24V (-10% ~ +15%)						
Volf	tage Endurance	AC500V f	or 1 minute (between charging (DC24\ and FG terminals)	/ terminal)				
Power	Consumption (Note 6)	13.5W	18.5W	21.6W				
В	ackup Battery	Uses a gold-cap	pacitor instead of a battery, no need to r	replace batteries				
Bac	ckup Battery Life	It can keep the RTC working at leas	t seven days in a working environment the specifications for DOP-W series.	where the conditions do not exceed				
Opera	ation Temperature		0°C ~ 50°C					
Stor	age Temperature		-20 °C ~ +60 °C, 10% ~ 90% RH					
Ambient Humidity		10% ~ 9	0% RH [0 ~ 40 °C], 10% ~ 55% RH [41 Pollution Degree 2	~ 50 °C]				
Vibration		IEC61131-2 compliant 5Hz \leq f	< 8.3Hz = Continuous: 3.5mm, 8.3Hz	≦f≦150Hz = Continuous: 1.0g				
	Shock	IEC 60068-2-27 compl	iant 15g peak for 11 ms duration, X, Y,	Z directions for 6 times				
	Dimensions x(H)x(D)mm	299 × 224 × 46.8	313 × 239.5 × 67.5	384.4 × 295.8 × 67.8				
	Panel Cutout W)x(H)mm	285.2 × 210.2	302.7 × 228.7	372.4 × 283.7				
Weight		Approx. 1750 g	Approx. 2830 g	Approx. 3880 g				

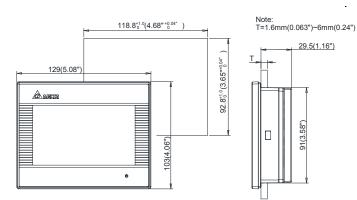
The half-life of backlight is defined as original luminance being reduced by 50% when the maximum driving current is supplied to HMI.
 With built-in isolated power circuit.
 Please use isolated power supply.
 Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.
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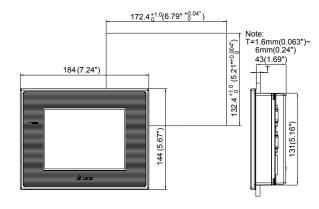


DOP-B Series

• DOP-B03S(E)211

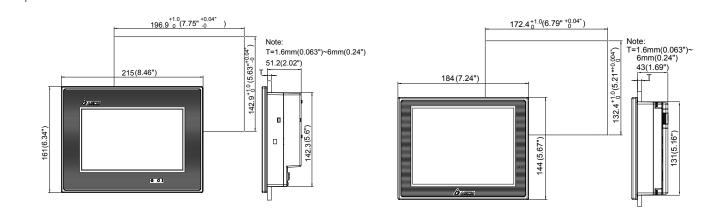


• DOP-B05S111



• DOP-B07S(E)415 / DOP-B07PS415

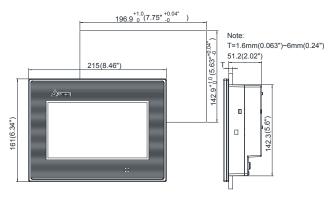
• DOP-B07S(E)515 / DOP-B07PS515



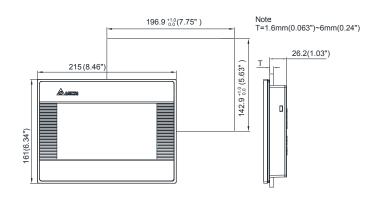


DOP-B Series

• DOP-B07S411 / B07E411

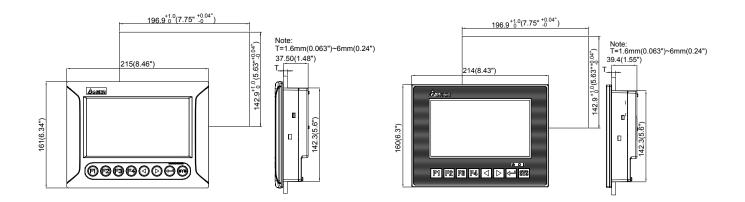


• DOP-B07S410



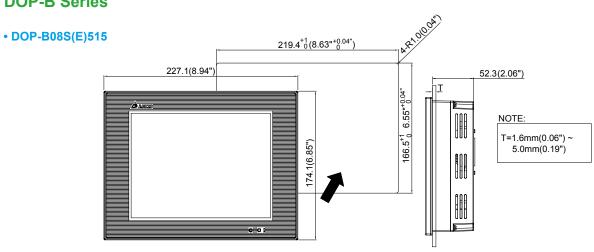
• DOP-B07S401K

• DOP-B07S411K

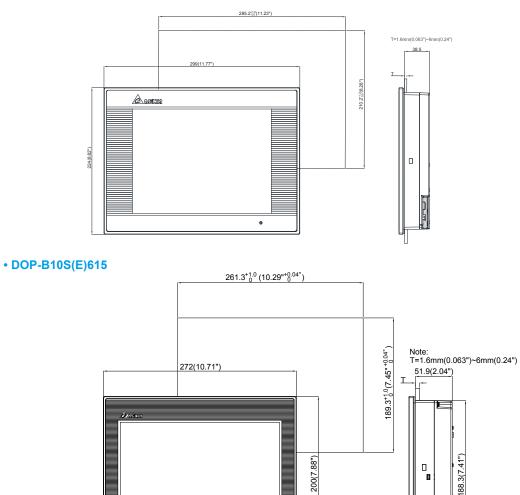




DOP-B Series

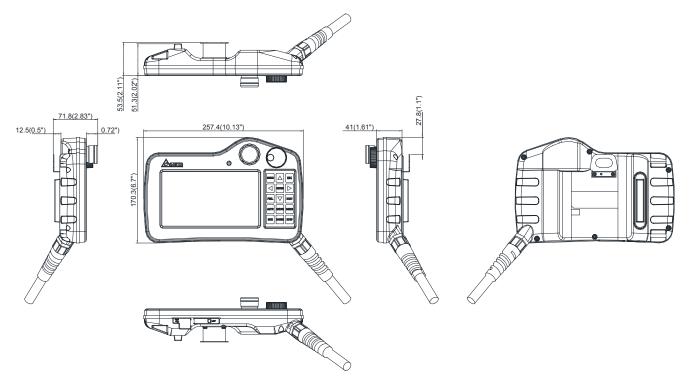


• DOP-B10S(E)51x / DOP-B10PE515 / DOP-B10VS511



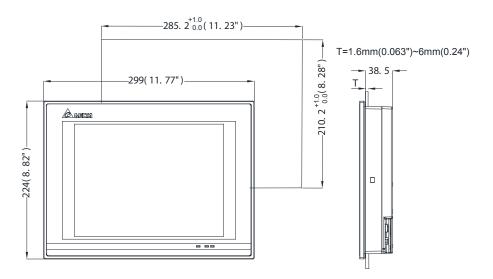
DOP-H Series

• DOP-H07X4XX



DOP-W Series

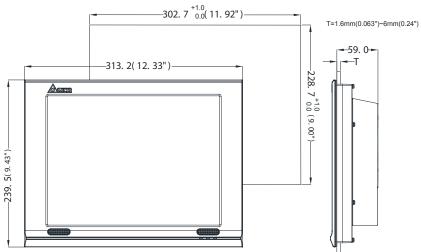
• DOP-W105B

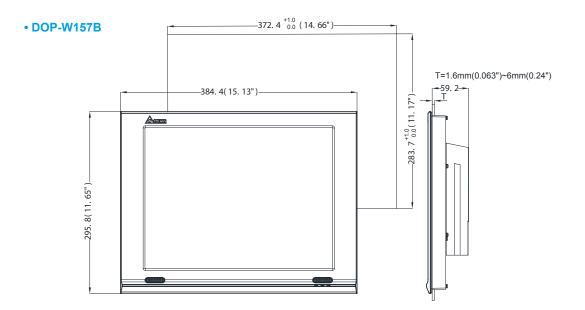




DOP-W Series

• DOP-W127B

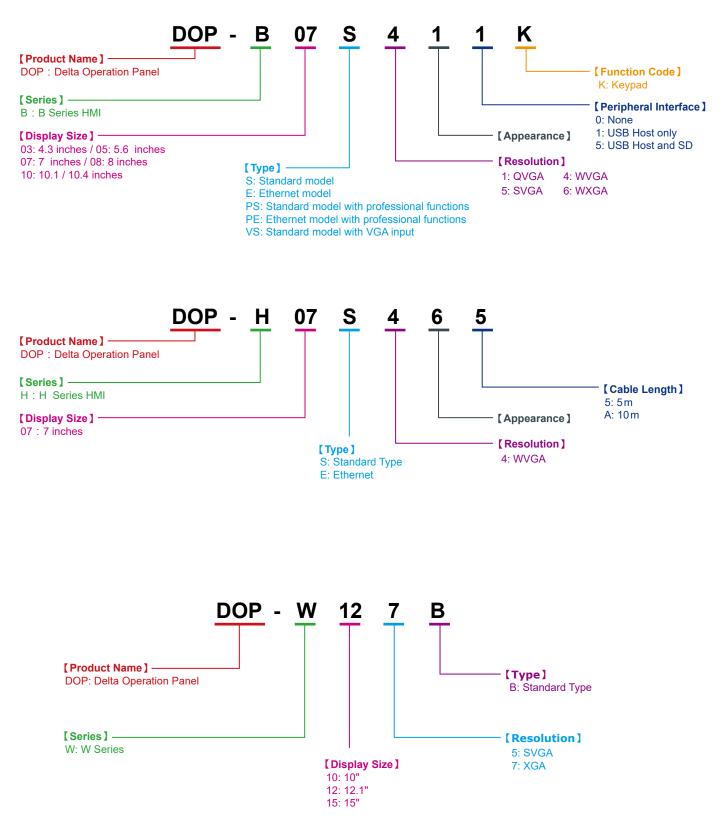




Optional Accessories

Model Name	Description
DOP-CA232DP	DOP-CA232DP: RS-232 Communication Cable for DVP Series PLC (Female Socket)
DVPACAB2A30	DVPACAB2A30: RS-232 Communication Cable for DVP Series PLC (Male Socket)
DOP-CAUSBAB	DOP-CAUSBAB: USB Communication Cable

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