Automation for a Changing World

Delta Human Machine Interface
DOP-100 Series
(Ethernet/Standard/Basic)

New
Upgrade

ΛELTΛ

Smarter. Greener. Together.

Human Machine Interface Pioneer and a Leading Brand

The DOP-100 Series Human Machine Interfaces include an Ethernet type, standard type and basic type. All models adopt the latest Cortex-A8 high-speed processor and 65,536 color LCD screen with high brightness, high contrast and high color. In addition, they are equipped with the HMI programming software DopSoft, built-in Lua edtior for easy programming as well as alarm / history log / user authority functions for highly efficient management.

For customers who are pursuing smart manufacturing and starting to build data exchange between equipment, factories, and cloud, the Ethernet type supports Ethernet and other network communication, including FTP, e-mail, VCN remote monitoring, and NTP (Network Time Protocols). It also adopts online coding tips, and a variety of cloud services. The DOP-100 Ethernet narrow-framed type supports 16 languages* input to achieve powerful localized operation for global customers.

For general applications, the standard type fulfills the needs of most customers in various industries; and the basic type is suitable for a simple operating structure with no built-in power/communication isolation and fewer communication ports.

With advanced communication capabilities and enhanced functions,
the DOP-100 Series elevates machine efficiency to bring more value to
our customers, achieving "Automation for a Changing World"!

* Supports 16 languages input: English, Traditional Chinese, Simplified Chinese,
  French, German, Russian, Japanese, Korean, Spanish, Portuguese, Hindi,
  Turkish, Arabic, Persian, Italian and Polish

Table of Contents

Design

Slim and Compact Designs

▶ The DOP-100 Series adopts aesthetic slim and compact panel designs applicable to a variety of operating environments

Ethernet Type:

▶ Narrow Frame Models: DOP-103WQ (4.3") / DOP-107WV (7") / DOP-110WS (10.1")

▶ General Frame Models: DOP-107EV(G) (7")

Standard Type: DOP-107CV (7") / DOP-110CS (10.1")

Basic Type: DOP-103BQ (4.3") / DOP-107BV (7")

* Mounting dimensions: 118.8 x 92.8 ~ 255 x 170 (mm), compatible with the DOP-B Series

Bright and Colorful Display

▶ New 65,536 color LCD screen with high brightness and high contrast display for colorful and vivid images
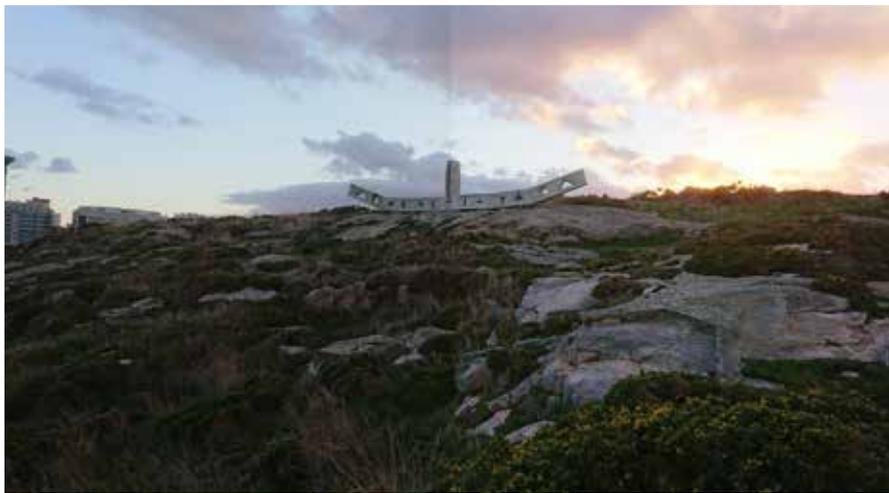
Abundant Elements

▶ Abundant built-in graphic elements for a vivid interface display for use in a variety of industrial applications

Smooth Animation

▶ New smooth animation technology for a more close-to-real dashboard display

Programming Software - DopSoft

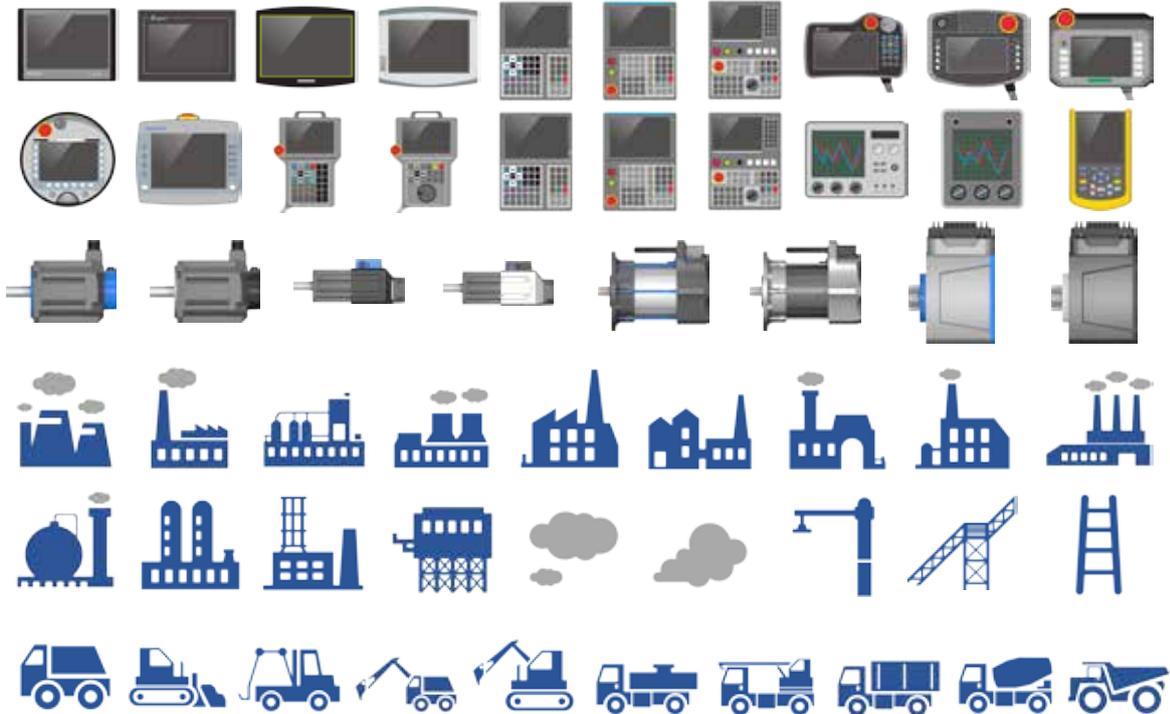## User-friendly friendly programming interface

Bookmark Management

Bookmark menu allows users to easily switch pages

Project Management

Quickly switches items with project branches
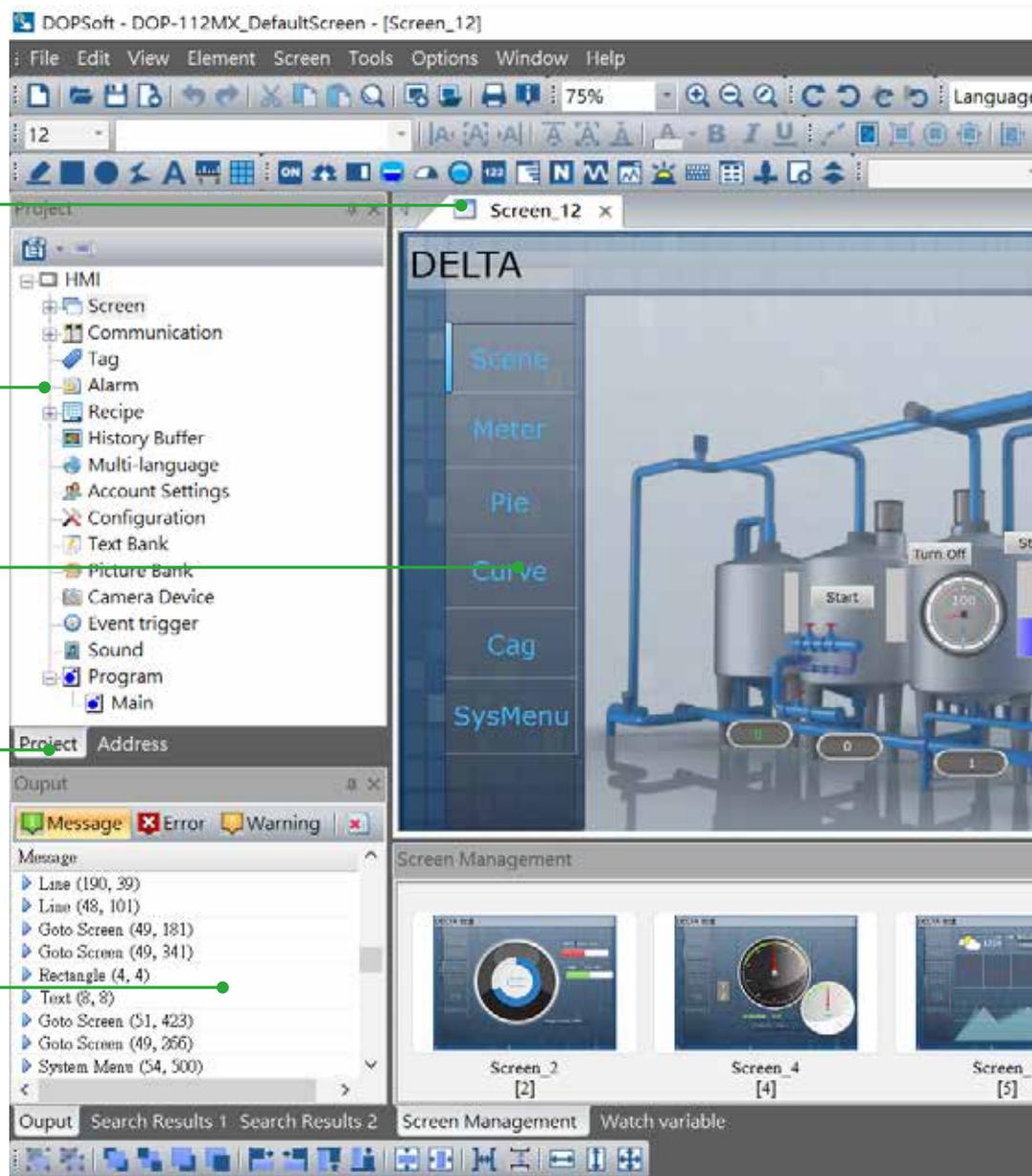
Editing Area

Real-time editing display

Output List

Automatically displays each editing screen. Users can review and resolve errors with simple clicks

Output Preview

Quickly browses overall project via output preview
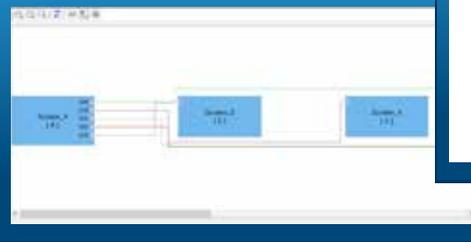
Customized Keyboard

ABCD

Abundant Accessories

Field Devices

Process Paradigms

Tools

Shortcut icons to help enhance work efficiency

Properties

Screen Name	Screen_12	
Screen Properties	Detail...	
Background Color	RGB(252, 252, 252)	
Screen Lock Bit	None	
Screen Macro		
Screen Open Macro	3	
Screen Close Macro	0	
Screen Cycle Macro	17	
Width	1024	
Height	768	

Provides easier property setup via group lists

Lua Editor

Provides an editing platform similar to C language for quick second development

Quick Setting Window

Standard accessory dialog box adopts built-in preview and quick-edit functions

Maintained

Main Main-2 Text Picture Details Macro Coordinates

Memory

Write Address:
$1.0

Read Address:
None

Write Offset Address:
None

Read Offset Address:
None

Color

State:
0

Language:
Language1

Element description:
交替型_010

Style

Style: Standard

Foreground Color:

Blink: No

Filled style: Gradient

OK   Cancel

Ba... Macro Ma... Program e...
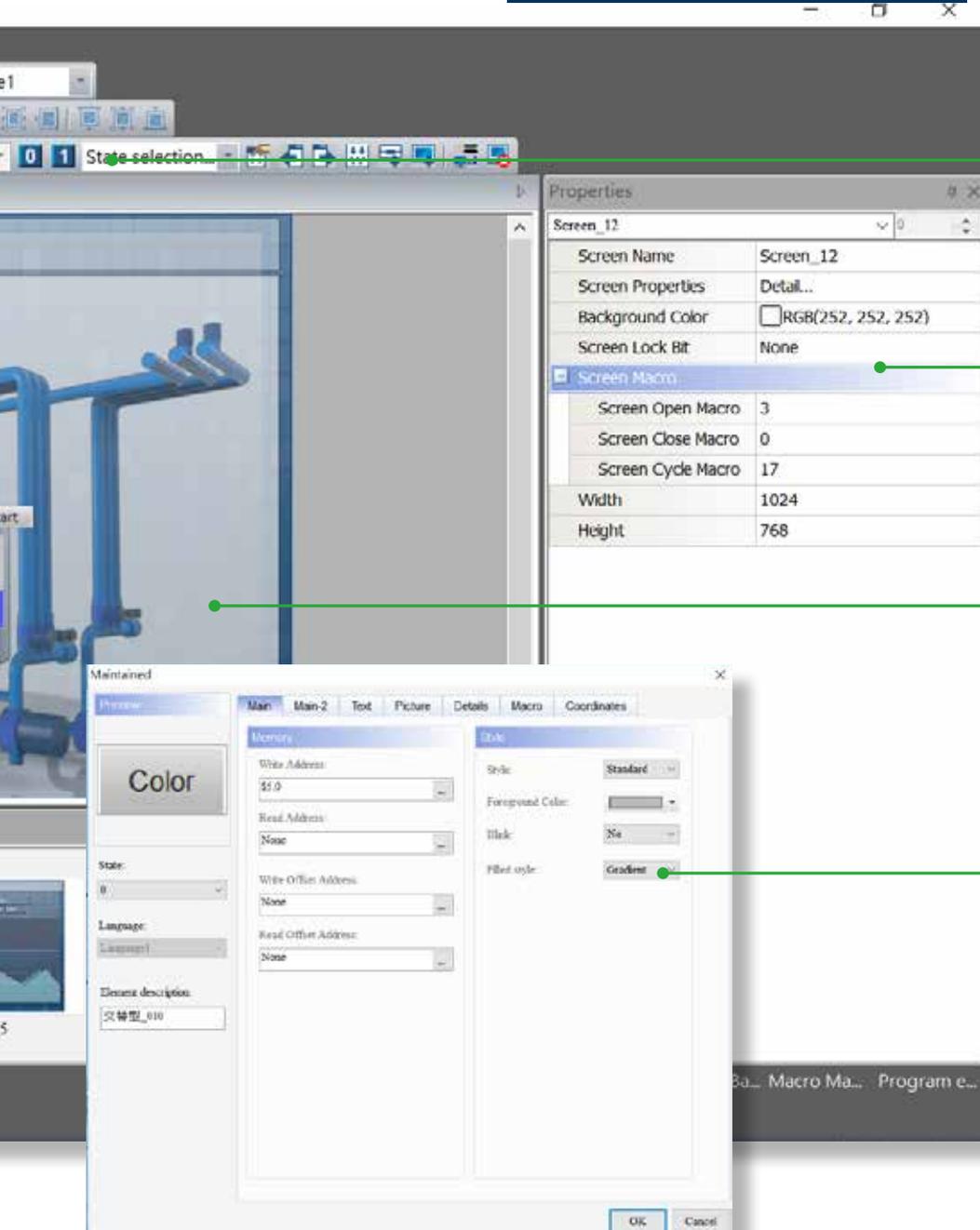
Editing Windows
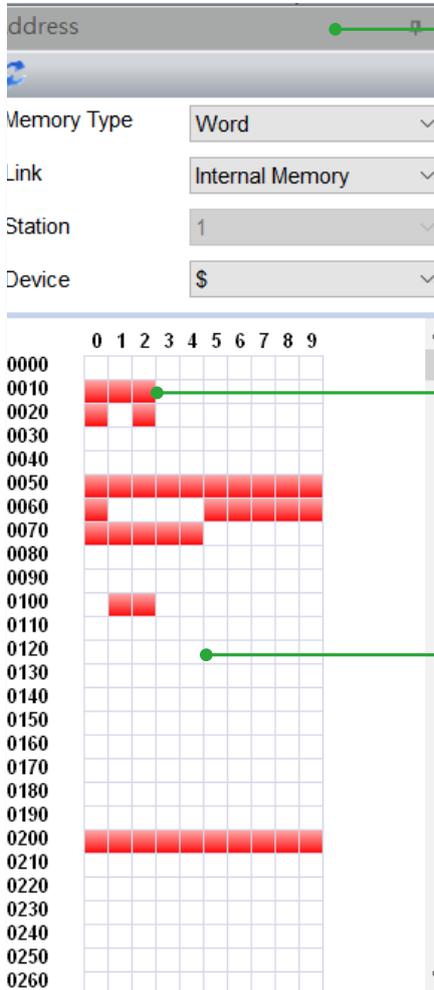
Register Window

The red and white blocks allow users to view the register status for easier management

Red blocks indicate used registers

White blocks indicate empty registers
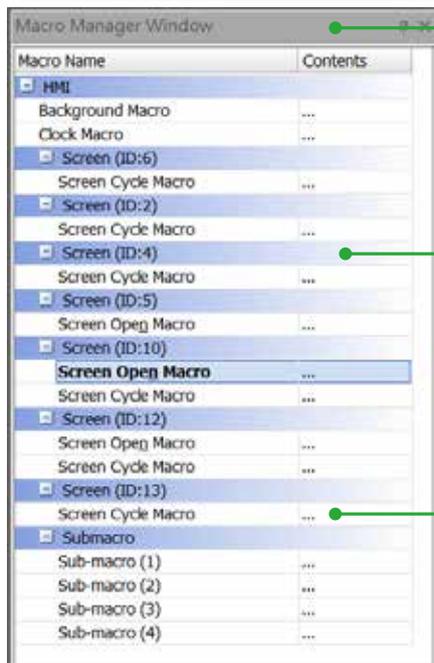
Macro Management Window

Users can view all types of macros in the project
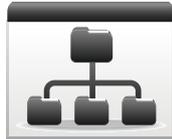
Selects a macro in the list

...

Directly edits the macro after clicking

Lua Tool Bar
(Ethernet Type only)

Debugging

Debug stopped

Program break point

Online Coding Tips
(Ethernet Type only)

Simply move the mouse to the selected codes, and Lua editor will display tip windows for the codes

Parameter Monitoring Window
(Ethernet Type only)

Monitors parameter variation during program development

Programming Assistance Window

Provides online assistance:
• Lua code templates
• Program usage and properties
• Program samples

Advanced Alarm

Strengthened alarm functions allow users to easily manage machine operations and quickly eliminate problems

▶ Alarm messages contain current register data for issue analysis

Alarm Sorting

Alarm sorting via the "Sorting" function is based on alarm attributes for quick information inquiries

Supports Compound Address Monitoring

Monitors Word and Bit documents at the same time

Versatile Alarm Triggering Conditions

Triggering conditions can be setup via built-in function, no external editing programs are required

Alarm Notification (Ethernet Type only)

Automatically sends out alarm notification emails to logged-in recipients when alarms occur; supports the Secure Sockets Layer (SSL) protocol to ensure safe data transmission

▶ Indicates the alarm trigger and recovery time, and provides alarm acknowledge time / date (Ack) to confirm and monitor troubleshooting progress

Message	Trigger	Ack	Recovery
Temp. too Low，PV is 12	15:07:12 02/03/2017		15:07:15 02/03/2017
Temp. too High，PV is 91	15:07:15 02/03/2017	15:07:56 02/03/2017	15:07:22 02/03/2017
Temp. too Low，PV is 15	15:07:22 02/03/2017		15:07:25 02/03/2017
Temp. too Low，PV is 23	15:07:28 02/03/2017	15:07:58 02/03/2017	15:07:34 02/03/2017

Alarm Filtering

Advanced address control filtering allows users to find specified alarm messages according to user requirements

Action	
Address control filtering allows users to find specified alarms	
No.	Action
0	Preset state, shows all triggered alarms
1	Hide alarms with "Restore Time" and "Confirm Time"
2	Hide alarms with "Restore Time"
3	Hide alarms with "Restore Time" or "Confirm Time"
4	Hide alarms with "Confirm Time"

Alarm Ordering

Displays alarms in the order of Trigger Time / Confirm Time / Restore Time

Order by Trigger time
Order by ACK time
Order by Recover time

Order by Recover time
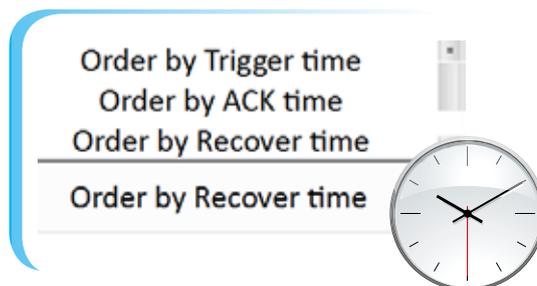
Robust Hardware

Power Isolation

▸ Built-in power isolation circuits provide complete protection against accidental external spikes
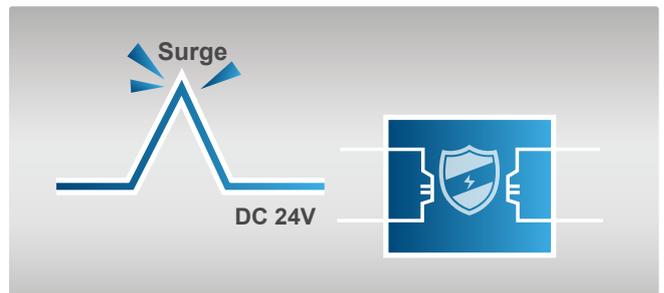
Fully Isolated Communication Interface

▸ Built-in COM and Ethernet isolation circuits protect against noise that can occur from the grounding of various devices such as PLCs, servo drives, inverters and others

PCB Coating

▸ PCB coating for enhanced durability and to protect against humidity and dust for applications in different environments
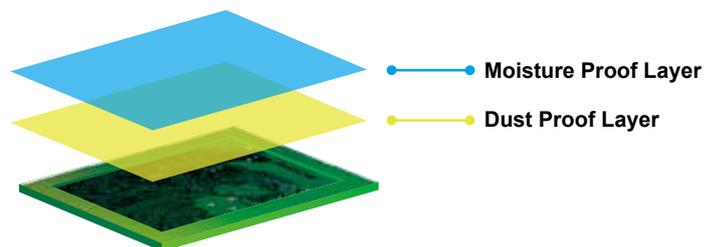
Model	Power Isolation	Communication Isolation
Ethernet Type (Narrow Frame Model)		
DOP-103WQ	Y	Y
DOP-107WV	Y	Y
DOP-110WS	Y	Y
Ethernet Type (General Frame Model)		
DOP-107EV	Y	Y
DOP-107EG	Y	Y
Standard Type		
DOP-107CV	Y	N
DOP-110CS	Y	N
Basic Type		
DOP-103BQ	N	N
DOP-107BV	N	N

Data Management

Historical Data

▶ Generates historical reports with user-defined file names and timestamps through Bit Control
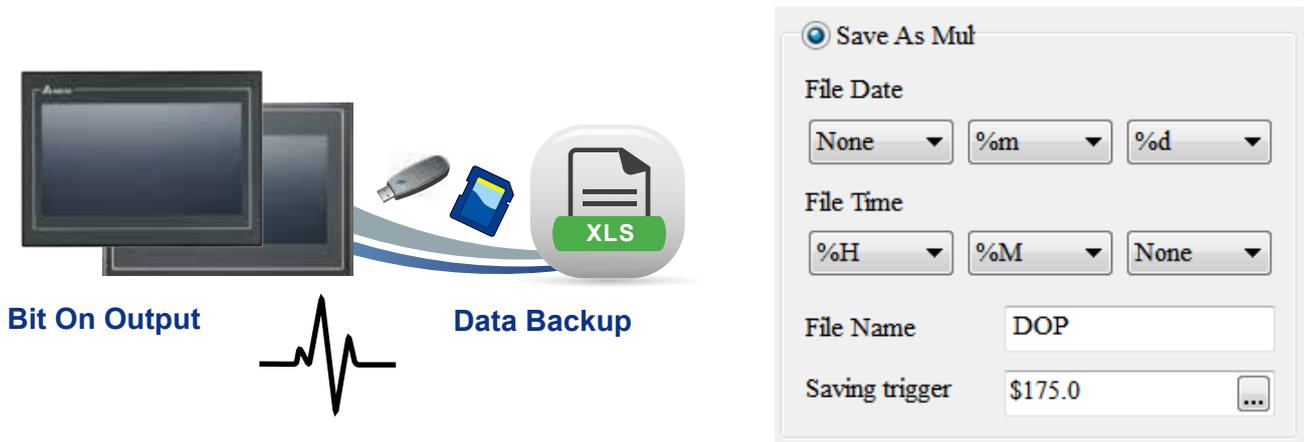
Bit On Output

Data Backup

Save As Mul
File Date
None ▾	%m ▾	%d ▾
File Time
%H ▾	%M ▾	None ▾
File Name	DOP
Saving trigger	$175.0 ...

Historical Data Review

▶ Allows historical data review on backup in USB disk or SD cards

Zoom In / Out Display

▶ Zoom in / out function for convenient data viewing

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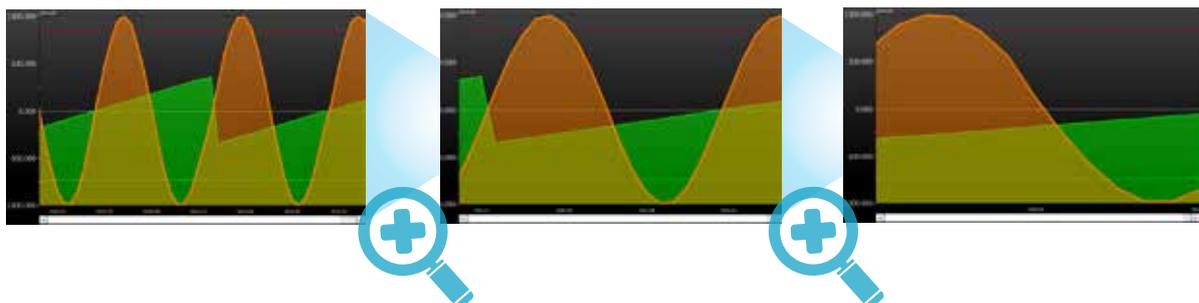
Recipes

▶ Supports 2D and 3D recipe groupings, and is more flexible in building recipe databases

▶ Various recipe formats, including text format (Unicode) which can also be used as formula notes

	D100	D101	D102	D103	D104	D105	D106	
	D100	**D101**	**D102**	**D103**	**D104**	**D105**	**D106**	50.7	**Recipe Group 2**
Cake Recipe 1	Strawberry	300	0	0	221.56	533.1	150.7	63.9
Cake Recipe 2	Chocolate	0	300	0	387.98	490.8	163.9	79.8
Cake Recipe 3	Vanilla	0	0	300	120.14	505.3	279.8	
		Strawberry	Chocolate	Vanilla	Sugar	Flour	Milk	**Recipe Group 1**
	Char	**Unsigned DEC**			**Floating**			

▶ Recipes can be saved in CSV files for convenient editing on PCs

▶ Allows recipe update or backup through USB disks, SD cards[1] or FTP[2]

Recipe

CSV / CSV / CSV / CSV

*1: SD card backup: supported by DOP-107EG / DOP-110WS
*2: FTP backup: supported by all Ethernet type models
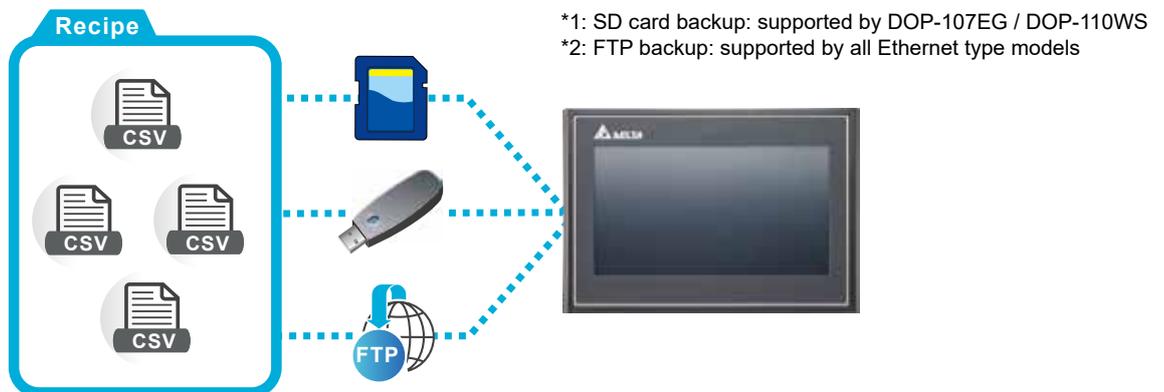
PDF for Data Review

▶ Saves manuals or instruction PDF files in USB disks or SD cards for reference anytime

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User Authority Management
Account and Authorization Management

▶ Supports 8 levels of authorities and allows 8 accounts (account name/password) for each level
▶ Different functions and operation access for each authority level to enhance operation safety

Account and Password		
7		
Number	Account	Password
1	MANAGER	7777
2	GERENTE	7777
3	經理	7777
4	MÜDÜR	7777
5	課長	7777

Login

☐ Security Login

Account manager

Password *********

OK

Operation Log

▶ Operation log for different user accounts to trace/analyze possible causes of malfunctions
▶ Provides comprehensive information for managers to analyze the operating habits of different users and improve efficiency

Time	Date	User	Level	Screen	Action	Address	Pre Value	Change Value	Description
19:22:18	2016.12.02	MANAGER	7	Screen_6	Goto Scrn		6	1	換畫面_006
19:22:20	2016.12.02	MANAGER	7	Screen_1	Goto Scrn		1	10	換畫面_001
19:22:24	2016.12.02	MANAGER	7	Screen_10	Set Val	$51.1	1	0	交替型_003
19:22:27	2016.12.02	MANAGER	7	Screen_10	Goto Scrn		10	1	換畫面_006
19:22:30	2016.12.02	MANAGER	7	Screen_1	Goto Scrn		1	7	換畫面_001
19:22:57	2016.12.02	MANAGER	7	Screen_7	Set Val	$20	-730	-698	數值輸入_0
19:23:02	2016.12.02	MANAGER	7	Screen_7	Goto Scrn		7	1	換畫面_006
19:23:05	2016.12.02	MANAGER	7	Screen_1	Goto Scrn		1	6	換畫面_001
19:23:47	2016.12.02	MANAGER	7	Screen_6	Level Switch		7	4	密碼輸入_0
19:23:52	2016.12.02	OPERATOR	4	Screen_6	Goto Scrn		6	1	換畫面_006
19:23:55	2016.12.02	OPERATOR	4	Screen_1	Goto Scrn		1	3	換畫面_001
19:24:03	2016.12.02	OPERATOR	4	Screen_3	Set Val	ENRCP10	12ED	65AE	數值輸入_0
19:24:09	2016.12.02	OPERATOR	4	Screen_3	Set Val	ENRCP11	456.32	125.93	數值輸入_0
19:24:14	2016.12.02	OPERATOR	4	Screen_3	Set Val	ENRCP17	400	452	數值輸入_0
19:24:15	2016.12.02	OPERATOR	4	Screen_3	Goto Scrn		3	1	換畫面_006
19:24:17	2016.12.02	OPERATOR	4	Screen_1	Goto Scrn		1	6	換畫面_001

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Cloud Integration (Ethernet Type only)

FTP Server

▶ Built-in FTP server to update recipes or PDF files, and backup historical data, operation logs, and alarms
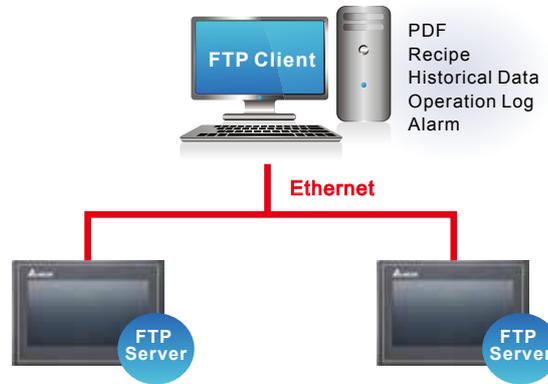
VNC Server

▶ Built-in VNC server allows remote monitoring and operating of the DOP-100 Series via VNC Client APP (Windows, iOS, Android)

▶ Lock function: temporarily blocks remote operating authorization when personnel operating on-site avoid unsynchronized commands; VNC server only allows remote monitoring when the lock is on
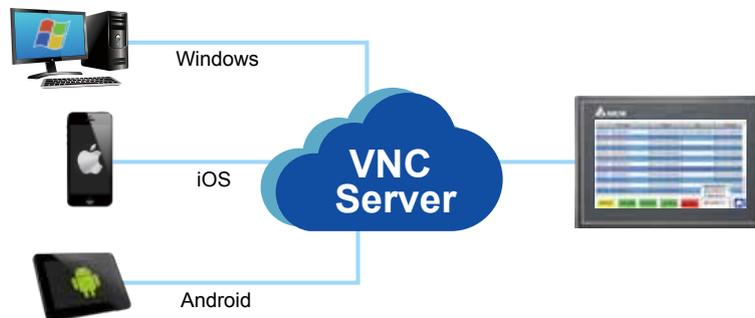
Web Monitoring

▶ Allows direct monitoring of register data via web page without additional software
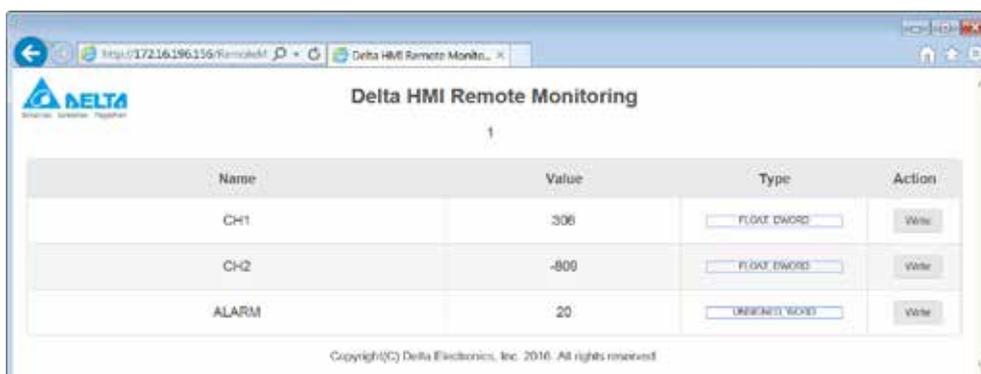
Hardware Specifications

Ethernet Type (Narrow Frame Models)

Model		DOP-103WQ	DOP-107WV	DOP-110WS
LCD Module	Display	4.3" TFT LCD	7" TFT LCD	10.1" TFT LCD
	Color	65,536		
	Resolution (Pixels)	480 x 272	800 x 480	1024 x 600
	Back Light	LED Back Light		
	Back Light Brightness (cd/m^2)	400	450	450
	Back Light Life (Hour) [Note 1]	10,000	30,000	30,000
MCU		ARM Cortex-A8 (800MHz)		
Flash ROM (Bytes)		256 MB		
RAM (Bytes)		512 MB		
Touch Panel		Four-wire resistor, over 10,000,000 pressing times		
Buzzer		Multi-Tone Frequency (2K ~ 4K Hz) / 80dB		
Ethernet Interface		1 Port [Note 2], 10/100 Mbps auto-sensing		
USB		1 USB Slave Ver 2.0 / 1 USB Host Ver 2.0		
SD		N/A	N/A	N/A
Serial COM Port	COM1	RS-232 (supports hardware flow control) / RS-485 [Note 2]	RS-232 (supports hardware flow control)	
	COM2	RS-422 / RS-485 [Note 2]	RS-232 (supports hardware flow control) / RS-485 [Note 2]	
	COM3	N/A	RS-422 / RS-485 [Note 2]	
RTC		Built-in		
Cooling		Nature air circulation		
Certification		CE / UL		
Waterproof		IP65 / NEMA4 / UL Type 4X (indoor use only)		
Operation Voltage [Note3]		DC +24V (-15% ~ +15%) [Note 2]		
Voltage Endurance		A599V for 1 minute (between charging DC24 terminal and FG terminals)		
Power Consumption [Note 5]		Max. 5.8W [*3]	Max. 8.4W [*3]	Max. 11W [*3]
Backup Battery		3V lithium battery CR2032 × 1		
Backup Battery Life		Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C		
Operation Temperature		0℃ ~ 50℃		
Storage Temperature		-20℃ ~ +60℃		
Ambient Humidity		10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2		
Vibration		IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g		
Shock		IEC 60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times		
Dimensions (W) x (H) x (D) mm		137 x 103 x 37.1	196 x 136 x 39	270 x 180.9 x 47.75
Dimensions (W) x (H) mm		118.8 x 92.8	186.8 x 126.8	255.5 x 170.5
Weight		280g	560g	1,100g

1) The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to a HMI.
2) Built-in power isolation
3) An isolated power supply is recommended.
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 the HMI with no peripheral devices connected.
6) 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

DELTA

Hardware Specifications

Ethernet Type (General Frame Models)

Model		DOP-107EG	DOP-107EV
LCD Module	Display	7" TFT LCD (65,535)	7" TFT LCD (65,535)
	Resolution (Pixels)	800 x 600	800 x 480
	Back Light	LED Back Light Half-life: 20,000 hours under ambient temperature (25° C) [1]	
	Display area	141.00 x 105.75 mm	154.08 x 85.92 mm
	Back Light Brightness (cd/m²)	450 cd / m² (Typ.)	400 cd / m² (Typ.)
MCU		ARM Cortex-A8 (800MHz)	
Flash ROM (Bytes)		256 MB	
RAM (Bytes)		256 MB	
Touch Panel		Four-wire resistor, over 10,000,000 pressing times	
Audio Output	Buzzer	Multi-Tone Frequency (2K ~ 4K Hz) / 80dB	
	AUX	Stereo output	N/A
Ethernet Interface		1 Port, 10/100 Mbps auto-sensing [2]	1 Port, 10/100 Mbps auto-sensing [2]
USB		1 USB Slave Ver 2.0; 1 USB Host Ver 2.0	
SD		SD [1]	N/A
Serial COM Port	COM1	RS-232 (supports hardware flow control)[2]	RS-232 (supports hardware flow control)[2]
	COM2	RS-232 (supports hardware flow control) / RS-485[2]	RS-232 (supports hardware flow control) / RS-485 [2]
	COM3	RS-422 / RS-485[2]	RS-422 / RS-485[2]
Auxiliary key		N/A	
RTC		Built-in	
Cooling		Natural air circulation	
Certification		CE / UL (please equip Shielding cables and line filters with capacity of 300ohm/100MHz)	
Waterproof		IP65 / NEMA4 / UL TYPE 4X (indoor use only)	
Operation Voltage[3]		DC +24V (-15% ~ +15%) (please equip isolated-type power supplies) Supplied by Class 2 or SELV circuit (isolated from MAINS by double insulation)	
Voltage Endurance		AC500V for 1 minute (between charging DC24 terminal and FG terminals)	
Power Consumption[5]		Max. 8.4W[3]	Max. 8.6 W[3]
Backup Battery		3V lithium battery CR2032 × 1	
Backup Battery Life		Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C	
Operation Temperature		0°C ~ 50°C	
Storage Temperature		-20°C ~ +60°C	
Ambient Humidity		10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2	
Vibration		IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g	
Shock		IEC60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times	
Dimensions (W) x (H) x (D) mm		184 x 144 x 50	215 x 161 x 50
Dimensions (W) x (H) mm		172.4 x 132.4	196.9 x 142.9
Weight		800 g	970 g

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Standard Type / Basic Type

Model		Standard Type		Basic Type	
		DOP-107CV	DOP-110CS	DOP-103BQ	DOP-107BV
LCD Module	Display	7" TFT LCD (65,535)	10.1" TFT LCD (65,535)	4.3" TFT LCD (65,535)	7" TFT LCD (65,535)
	Resolution (Pixels)	800 x 480	1024 x 600	480 x 272	800 x 480
	Back Light	LED Back Light Half-life: 20,000 hours under ambient temperature (25° C) [1]			
	Display area	154.08 x 85.92 mm	226mm * 128.7mm	95.04 x 53.856 mm	154.08mm * 85.92mm
	Back Light Brightness (cd/m²)	400 cd / m² (Typ.)	300 cd / m² (Typ.)	400 cd/m² (Typ.)	400 cd / m² (Typ.)
MCU		ARM Cortex-A8 (800MHz)			
Flash ROM (Bytes)		256 Mbytes			
RAM (Bytes)		256 Mbytes			
Touch Panel		Four-wire resistor, over > 10,000,000 operated			
Audio Output	Buzzer	Multi-Tone Frequency (2K ~ 4K Hz) / 80dB			
	AUX	N/A	N/A	N/A	N/A
Ethernet Interface		N/A	N/A	N/A	N/A
USB		1 USB Slave Ver 2.0; 1 USB Host Ver 2.0			
SD		N/A	N/A	N/A	N/A
Serial COM Port	COM1	RS-232 (supports hardware flow control)[2]			
	COM2	RS-232 (supports hardware flow control) / RS-485 [2]		RS-422 / RS-485 [2]	
	COM3	RS-422 / RS-485[2]	RS-422 / RS-485[2]	N/A	
Auxiliary key		N/A			
RTC		Built-in			
Cooling		Natural air circulation			
Certification		CE / UL (please equip Shielding cables and linefilters with capacity of 300ohm/100MHz)			
Waterproof		IP65 / NEMA4 / UL TYPE 4X (indoor use only)			
Operation Voltage[3]		DC +24V (-15% ~ +15%)(please equip isolated-type power supplies) Supplied by Class 2 or SELV circuit (isolated from MAINS by double insulation)			
Voltage Endurance		AC500V for 1 minute (between charging DC24 terminal and FG terminals)			
Power Consumption[5]		Max. 8.5 W [3]	Max. 10.4 W [3]	Max. 5.67W[3]	Max. 8.6 W[3]
Backup Battery		3V lithium battery CR2032 × 1			
Backup Battery Life		Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C			
Operation Temperature		0°C ~ 50°C			
Storage Temperature		-20°C ~ +60°C			
Ambient Humidity		10% ~ 90% RH (0 ~ 40° C), 10% ~ 55% RH (41 ~ 50° C), Pollution Degree 2			
Vibration		IEC 61131-2 compliant 5Hz ~ 8.3Hz = Continuous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g			
Shock		IEC60068-2-27 compliant 15g peak for 11ms duration, X, Y, Z, directions for 6 times			
Dimensions (W) x (H) x (D) mm		215 x 161 x 50	272 x 200 x 61	137 x 103 x 37.1	215 x 161 x 35.5
Dimensions (W) x (H) mm		196.9 x 142.9	261.3 x 189.3	118.8 x 92.8	196.9 x 142.9
Weight		970 g	1330 g	280 g	700 g

1) The half-life of a backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to a HMI.
2) Built-in power isolation
3) An isolated power supply is recommended.
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 the HMI with no peripheral devices connected.
6) 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

Product Information

Model Description

DOP - 1 07 W V

(Product Name)
DOP: Delta Operation Panel

(Series)
1: The DOP-100 Series HMI
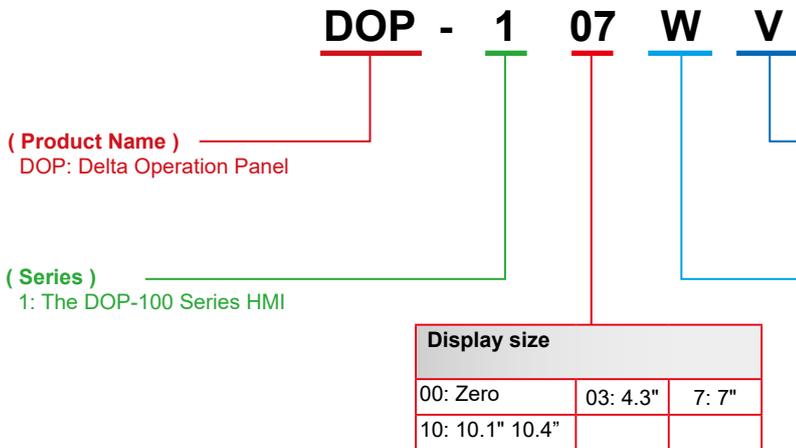
Resolution	
G: SVGA TFT (800x)	Q: WQVGA TFT (480x)
S: WSVGA TFT (1024x)	V: WVGA TFT (800x)
X: XGA TFT (1024x)	Z: No display (Zero)

Type	
B: Basic type	C: Standard type
E: Ethernet type (general frame model)	W: Ethernet type (narrow frame model)

Display size		
00: Zero	03: 4.3"	7: 7"
10: 10.1" 10.4"		

Dimensions Unit: mm (inches)

Ethernet Type (Narrow Frame Models)

• DOP-103WQ

NOTE:
T=1.6mm(0.063")~6mm(0.24")

118.8(4.68")
137(5.39")
92.8(3.65")
103(4.06")
30.7(1.21")
91.2(3.64")

• DOP-107WV

T=1.6mm(0.063")~6mm(0.24")

186.8(7.35")
196(7.72")
126.8(4.99")
136(5.35")
32

• DOP-110WS

NOTE:
T=1.6mm~6mm(0.06"~0.24")

*4-R5
255(10.06")
270(10.63")
170(6.71")
180.9(7.12")
47.75
6
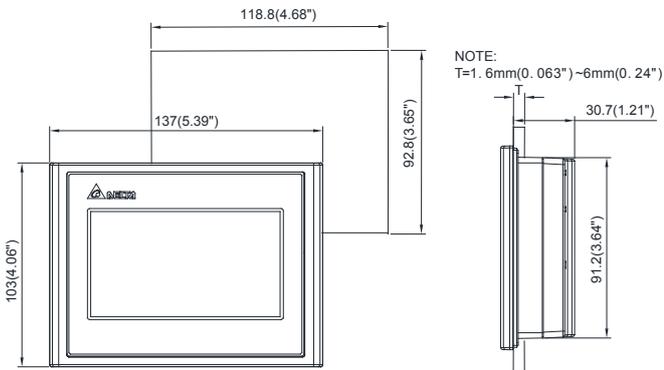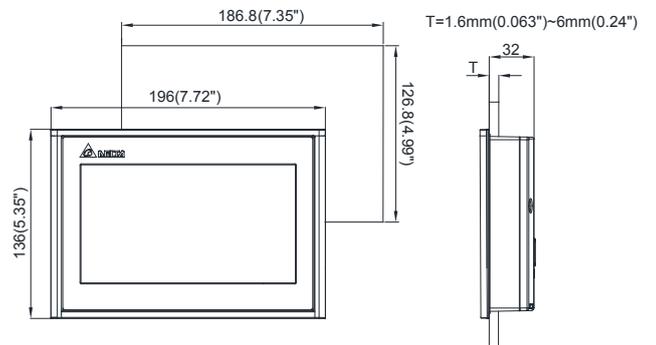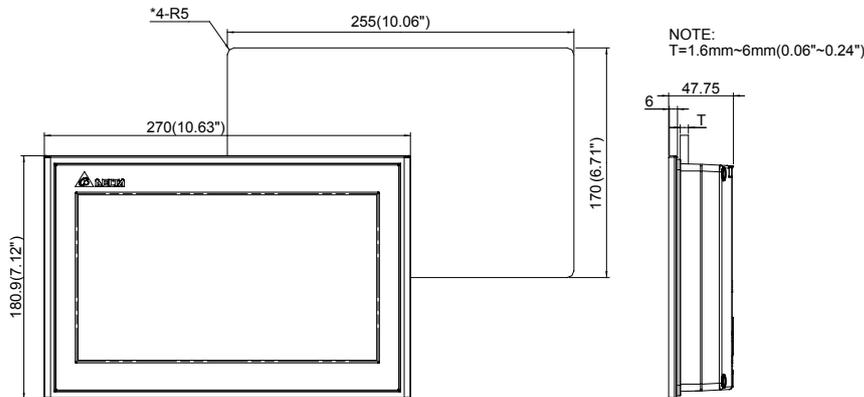
Dimensions Unit: mm (inches)

Ethernet Type (General Frame Models)
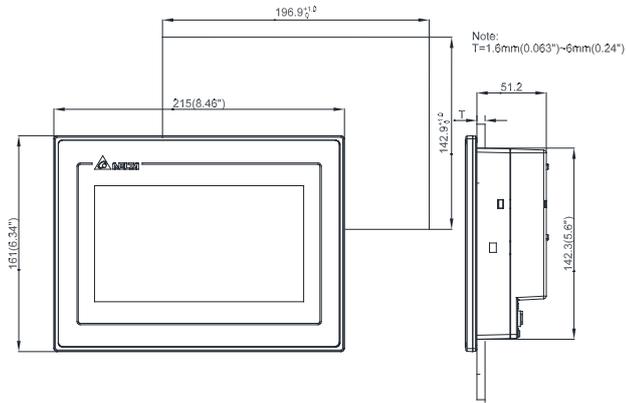
• DOP-107EV

• DOP-107EG
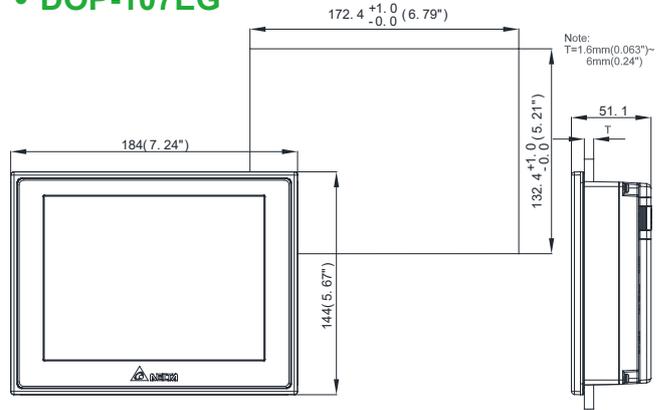
Standard Type

• DOP-107CV
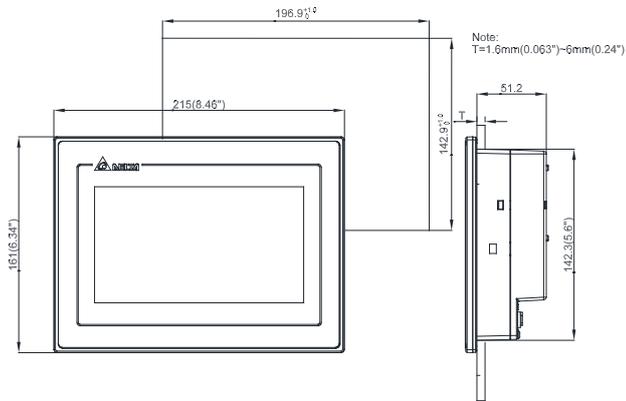
• DOP-110CS
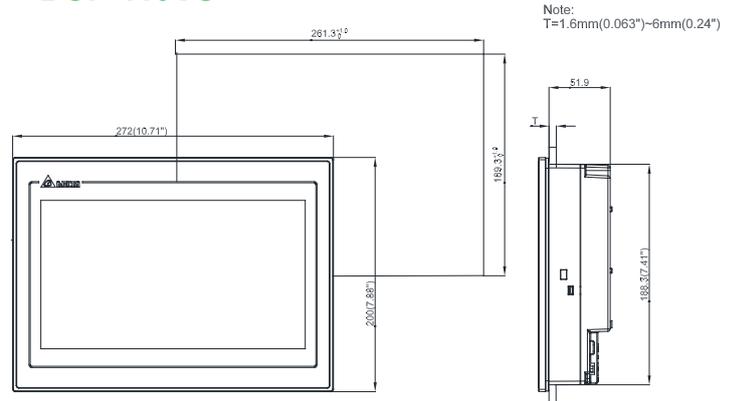
Basic Type

• DOP-103BQ
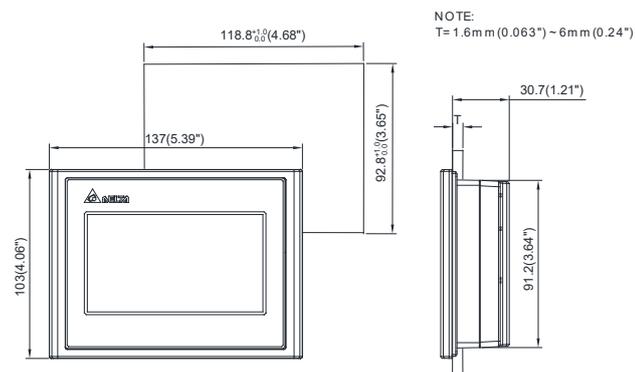
• DOP-107BV

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Taoyuan Plant 1

Taoyuan Plant (Diamond-rated Green Building)

ASIA (China)

Wujiang Plant 3

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Tokyo Office

Rudrapur Plant
(Green Building)

Amsterdam, Netherlands

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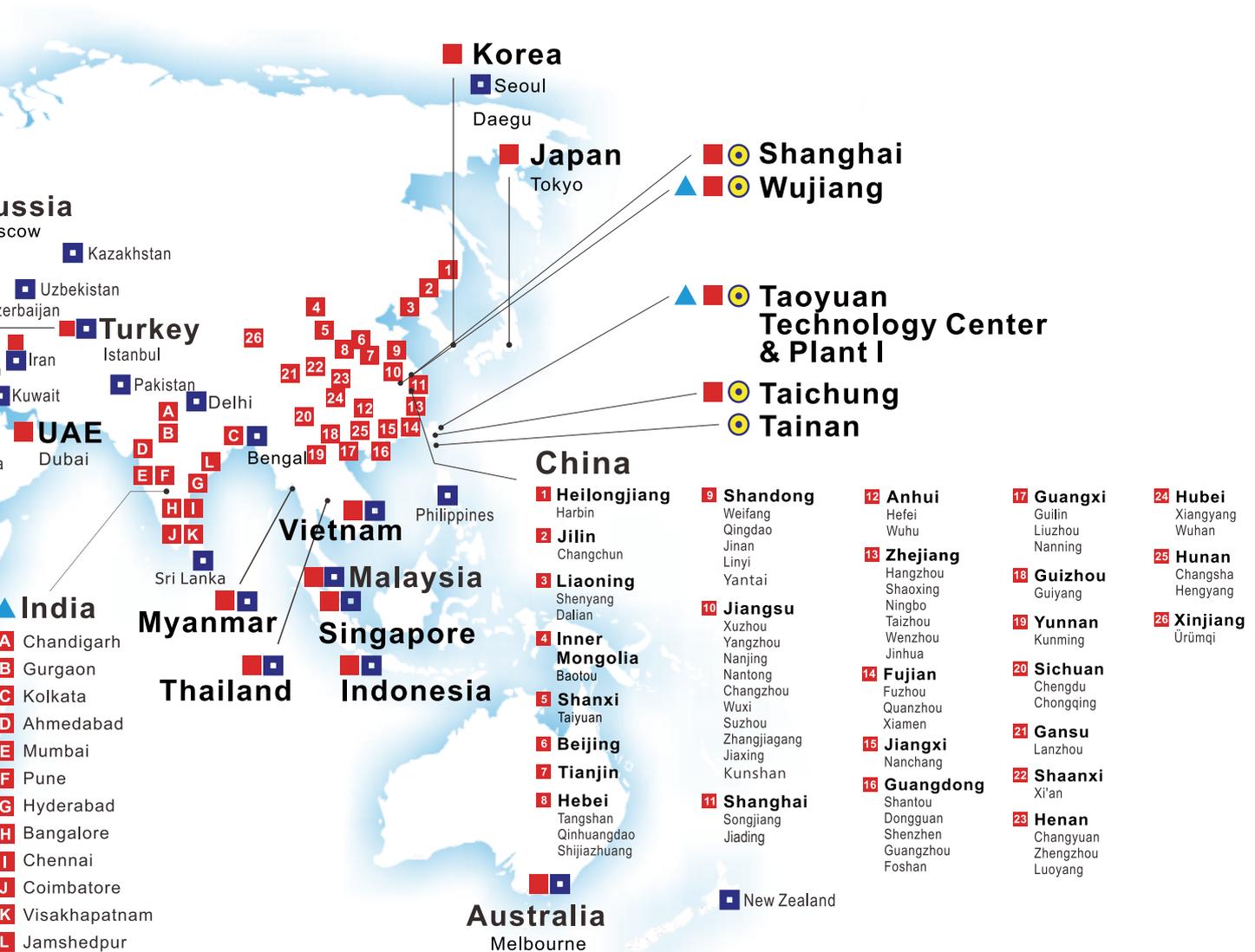Nanchang
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ΔELTA

DELTA

Smarter. Greener. Together.

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