

Automation for a Changing World

Delta Human Machine Interface DOP-100 Series





www.deltaWHOMine: 1900.6536 - Website: HO

Advanced Human Machine Interface for

The DOP-100 Series Human Machine Interfaces include a Basic HMI, Standard HMI and Advanced HMI for different applications. The HMIs adopt the latest Cortex-A8 / Dual Core high-speed processor and 65,536 color LCD screen with high brightness and contrast. In addition, they are equipped with the HMI programming software DOPSoft 4.0 and built-in Lua editor for easy programming as well as alarm / history log / user authority functions for highly efficient management.

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



Standard HMI

Features General and Ethernet Types for various applications

Advanced HMI

Features narrow frame design, supports various network communications, multilingual input and multimedia functions



Easy Model Selection

The DOP-100 Series offers complete models for different applications. Users can easily select a suitable HMI based on size or function easily



Type Definition
DOP-107 W V
W
Type



Advanced HMI

The Advanced HMI adopts a wide screen and narrow frame design. It supports Ethernet communication & multilingual inputs. The Multimedia Type DOP-112 / 115 offers multimedia functions to meet different applications.











Features



Narrow Frame

Enlarged visual display for better user experience



LUA Language

Simple and easy structural programming language to meet various demands



Pressing times >10,000,000

Effective pressing times increased through strict endurance tests



IP65 Rating

The front case protects the HMI from, rain, and dust



Multilingual Input

16 different languages input for easy operation



Diagnostics Function

Collects and solves issues remotely



Power Isolation

Protects the HMI from accidental surge interference



VNC Remote Monitoring

Remote control with mobile devices



QRcode Scanning

Generates QRcodes with self-defined content for mobile device identification



Supports GIF Graphic Elements

Easy setting to play vivid GIF elements



Embedded Linux System

Open system for flexible and stable program development



DOPSoft 4.0

New software DOPSoft 4.0 offers more complete functions and a better interface



Operating Temperature 0°C ~ 50°C

Compliant with industrial operating environments



CE / UL Certified

Compliant with CE and UL standards



Multimedia Functions

Captures image with an external camera or replays important recordings



Ethernet Communication

Connects to a master device or PLC with high-speed Ethernet communication



Communication Isolation

COM and Ethernet ports with built-in isolation circuits enhance communication stability



OPC UA

Supports M2M communication and data transmission among machines from various manufacturers for diverse industries



FTP/eMail Supported

Simple data transmission and real-time status report



Supports PDF and TXT Reader

PDF and TXT files supported

Camera & Video Play Multi-Media Functions





Analog Camera

Supports external camera via analog, suitable for capturing fast and short-distanced images

Applications: Textiles | Pharmaceutical | Rubber & Plastics



IP Camera

Supports IP Camera via Ethernet, suitable for capturing remote and wide-range images

Applications: Packaging | Logistics | Mining | Power Generation | Oil & Gas



VGA Input

Displays images from external devices such as machine vision systems, PCs or notebooks



Video Play

Views mpeg4 files captured by analog or IP camera from internal storage or USB disk/SD card



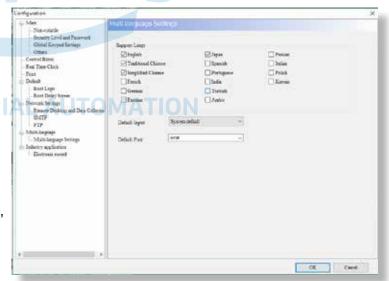
Event Trigger

HMI performs specific actions when an event condition occurs Sets up event trigger conditions to capture images and archive as mpeg4 files



Multi-Language Input for Localization

- ► The Advanced HMI supports multilingual inputs for:
 - Recipe Name (ENRCPG)
 - Recipe Group Name (ENRCPNO)
 - Recipe Content (Char)
 - User Name
- Supports 16 languages: English,
 Traditional Chinese, Simplified Chinese,
 French, German, Russian, Japanese,
 Korean, Spanish, Portuguese, Hindi, Turkish,
 Arabic, Persian, Italian and Polish





Delta' HMI can implement M2M communication and data transmission for diverse industries by means of OPC UA. Communication among different manufacturers' machines is enabled through information modeling.

Standard HMI

The Standard HMI is equipped with 2 COM ports to meet most applications. It also offers Ethernet Types for fast and easy connection with other equipment.













Features



Embedded Linux System Open system for flexible and stable program development



LUA Language Simple and easy structural programming language to meet various demands



DOPSoft 4.0 New software DOPSoft 4.0 offers more complete functions and a better interface



Pressing times >10,000,000 Effective pressing times increased through strict endurance tests



Operating Temperature 0°C ~ 50°C Compliant with industrial

operation environments



IP65 Rating The front case protects the HMI from rain, and dust



CE / UL Certified Compliant with CE and UL standards



Diagnostics Function Collects and solves issues remotely



Ethernet Communication Connects to master device or PLC with high-speed Ethernet communication







Power Isolation Protects the HMI from accidental surge interference



Communication Isolation COM and Ethernet ports with built-in isolation circuits enhance communication stability







VNC Remote Monitoring Remote control with mobile devices





FTP/eMail Supported Simple data transmission and real-time status report







Supports PDF and TXT PDF and TXT files supported



Supports GIF Graphic Elements Easy setting to play vivid GIF elements



User-Friendly Intuitive operation interfaces for users

Basic HMI

The Basic HMI features basic functions and easy installation for industrial applications. With an IP65 water-proof rating, it is suitable for harsh environments.





Features



Embedded Linux System
Open system for flexible and
stable program development



LUA Language
Simple and easy structural programming language to meet various demands



DOPSoft 4.0 New software DOPSoft 4.0 offers more complete functions and a better interface



Pressing times >1,000,000
Effective pressing times increased through strict endurance tests



Operating Temperature
0°C ~ 50°C
Compliant with industrial
operating environments



The front case protects the HMI from rain, and dust



CE / UL Certified
Compliant with CE and UL
standards



Diagnostics Function
Collects and solves issues
remotely



Ethernet Communication
Connects to master device
or PLC with high-speed
Ethernet communication



GREEN STEEL

FTP/eMail Supported
Simple data transmission
and real-time status report





Communication Isolation COM and Ethernet ports with built-in isolation circuits enhance communication stability



VNC Remote Monitoring
Remote control with mobile
devices





Supports PDF and TXT Reader PDF and TXT files supported



Diagnostics FunctionCollects and solves issues remotely



User-Friendly Intuitive operation interfaces for users

Handheld HMI

The handheld human-machine interface adopts a lightweight handheld design and can choose to support Com communication (422/485) or Ethernet communication. Meet the teaching needs of various motion platforms such as robotic arms.





Features



Embedded Linux System
Open system for flexible and
stable program development



LUA Language
Simple and easy structural programming language to meet various demands



DOPSoft 4.0
New software DOPSoft 4.0
offers more complete functions
and a better interface



Pressing times >10,000,000
Effective pressing times increased through strict endurance tests



Operating Temperature 0°C ~ 50°C Compliant with industrial operating environments



The front case protects the HMI from rain, and dust



CE Certified
Compliant with CE standards



Diagnostics Function Collects and solves issues remotely



Ethernet Communication
Connects to a master device or
PLC with high-speed Ethernet
communication



Protects the HMI from accidental surge interference



Communication Isolation COM and Ethernet ports with built-in isolation circuits enhance communication stability



FTP/eMail Supported
Simple data transmission and real-time status report



Supports PDF and TXT
Reader
PDF and TXT files supported



QRcode Scanning
Generates QRcodes with
self-defined content for mobile
device identification



User-FriendlyIntuitive operation interfaces for users



Diagnostics FunctionCollects and solves issues remotely

Robust Hardware

Power Isolation

Complete series with built-in power isolation circuits provides the most complete protection against accidental external spikes



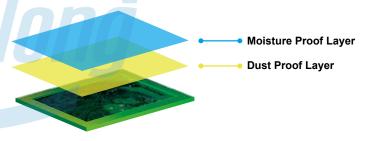
Fully Isolated Communication Interface

Complete series has built-in COM and Ethernet isolation circuits to protect against noise that can occur from the grounding of various devices such as PLCs, servo drives, inverters and others



PCB Coating

 Complete series has PCB coating for enhanced durability and to protect against humidity and dust for applications in a range of environments

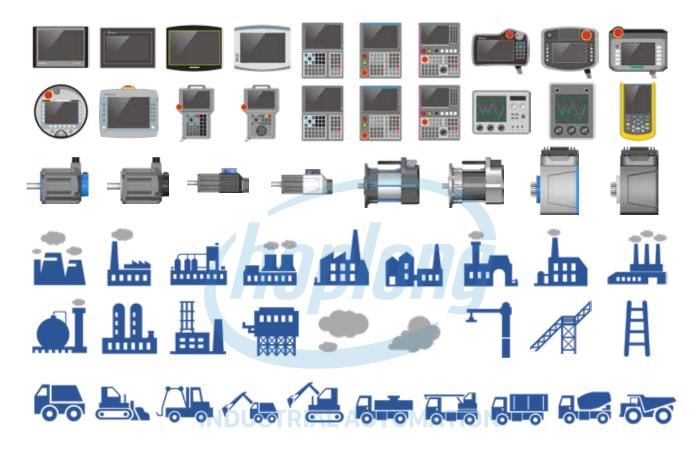


| Model | Power Isolation | Communication Isolation |
|--------------------------------|-----------------|-------------------------|
| Advanced HMI (Multimedia Type) | JSTRIAL AUTOMAT | ON |
| DOP-112/115 MX | Yes | Yes |
| Advanced HMI | | |
| DOP-103WQ/107WV/110WS | Yes | Yes |
| DOP-112/115 WX | Yes | Yes |
| Handheld HMI | | |
| DOP-107H | Yes | Yes |
| Standard HMI (Ethernet Type) | | |
| DOP-107IV | Yes | Yes |
| DOP-108IG/110IG | Yes | Yes |
| DOP-110IS | Yes | Yes |
| DOP-107EV | Yes | Yes |
| DOP-107EG | Yes | Yes |
| Standard HMI | | |
| DOP-105CQ | Yes | No |
| DOP-107CV | Yes | No |
| DOP-110CS | Yes | No |
| DOP-110CG | Yes | No |
| Standard HMI (General Type) | | |
| DOP-107DV | No | No |
| Basic HMI | | |
| DOP-103BQ | No | No |
| DOP-107BV | No | No |

Programming Software - DOPSoft 4.0

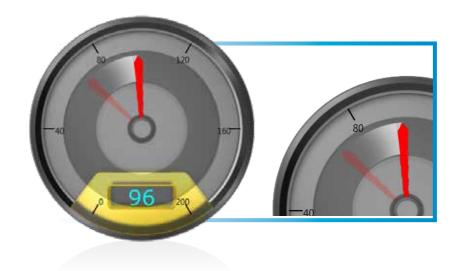
Abundant Elements

Abundant built-in element graphics for vivid interface display for a variety of industrial applications



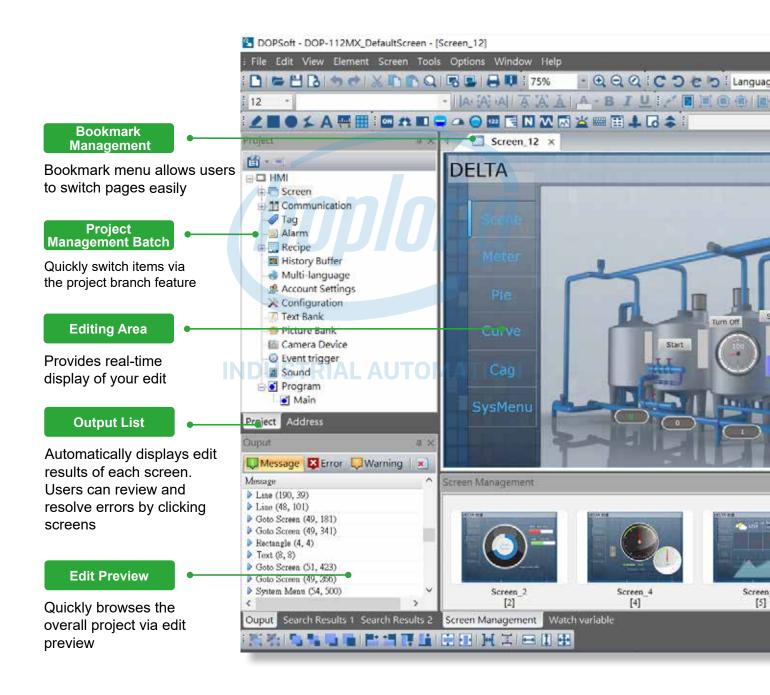
Smooth Animation

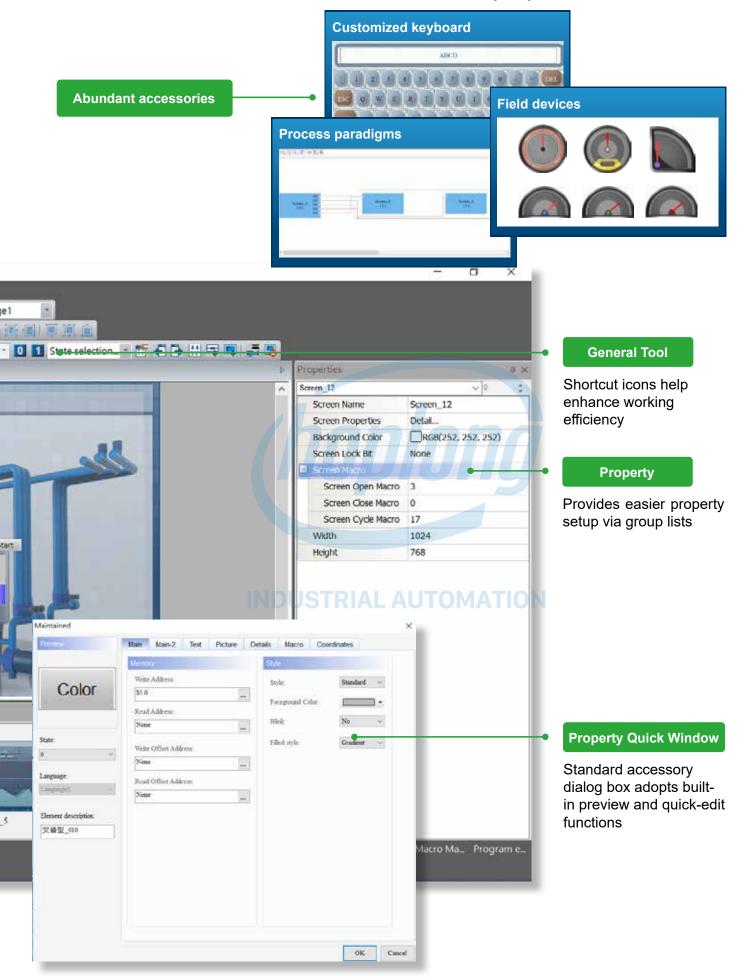
New smooth animation technology for realistic dashboard display



Programming Software - DOPSoft 4.0

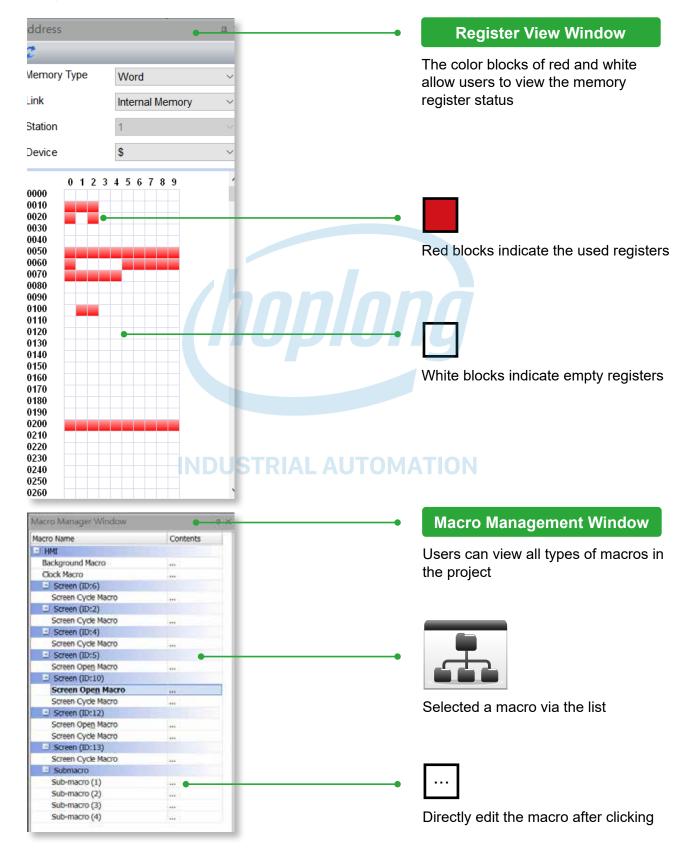
User-friendly Programming Interface

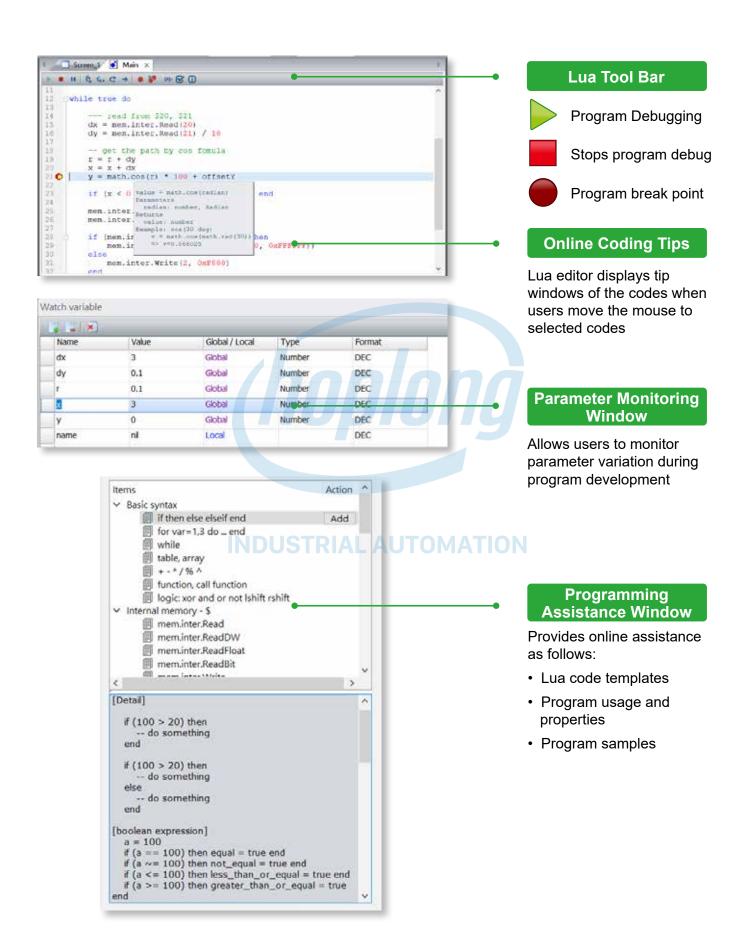




Programming Software - DOPSoft 4.0

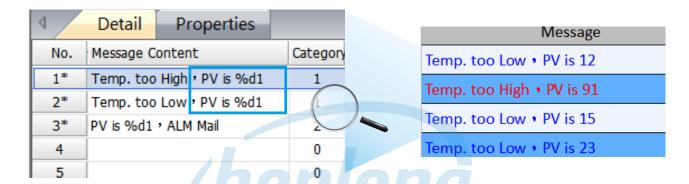
Editing Windows





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 a "Sorting" function based on alarm attributes for quick information inquiries

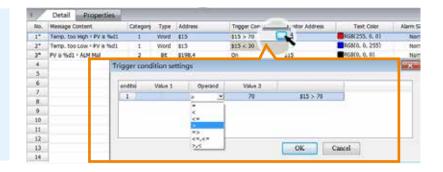
Supports Compound Address Monitoring

Able to monitor Word and Bit documents at the same time

| 4 | Detail Properties | STR | AL A | JTO MATIO | N | |
|-----|----------------------------|----------|------|-----------|-------------------|---------------|
| No. | Message Content | Category | Type | Address | Trigger Condition | Monitor Addre |
| 1* | Temp. too High , PV is %d1 | 1 | Word | \$15 | \$15 > 70 | \$15 |
| 2* | Temp. too Low , PV is %d1 | 1 | Word | \$15 | \$15 < 30 | \$15 |
| 3* | PV is %d1 , ALM Mail | 2 | Bit | \$198.4 | On | \$15 |
| 4 | | 0 | Bit | None | On | None |

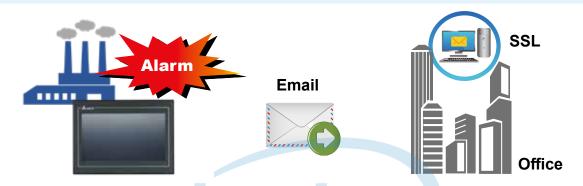
Versatile Alarm Triggering Conditions

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



Alarm Notification

Automatically sends out alarm notification emails to logged-in recipients when alarms occur and 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 |
| IND | USTRIAL AU | OMATION | |

Alarm Filtering

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

| | 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

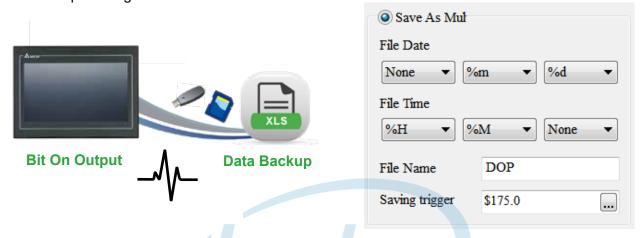
Able to display alarms in the order of Trigger Time / Confirm Time / Restore Time



Data Management

Historical Data

Able to generate historical reports with user-defined file names and timestamps through Bit Control



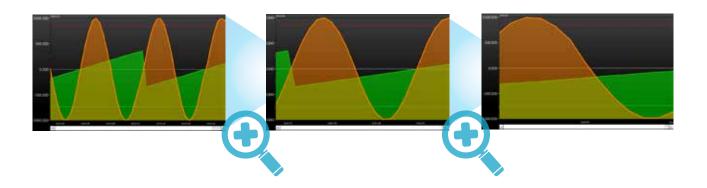
Historical Data Review

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



Zoom In / Out Display

Zoom in / out function for convenient data viewing



Recipes

- Supports 2D and 3D recipe grouping, more flexible in building recipe database
- ▶ Various recipe formats, including text format (Unicode) which can also be used as formula notes



- Recipes can be saved in CSV files for convenient editing on PCs
- Allows recipe update or backup through USB disks, SD cards or FTP



PDF for Data Review

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



User Authority Management

Account and Authorization Management

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



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

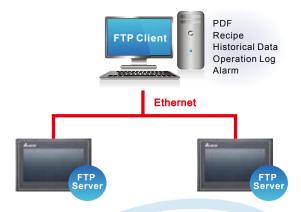
| Time | Date | User | Level | Screen Description Action | Address | Pre Value | Change * |
|----------|------------|------|-------|-----------------------------|---------|-----------|----------|
| 13:02:08 | 09/29/2020 | | 0 | Screen_Maintained_0(Set Val | \$0.0 | 0 | 1 |
| 13:02:20 | 09/29/2020 | | 0 | Screen_Maintained_0/Login | \$10.0 | | 11 |
| 13:02:20 | 09/29/2020 | 11 | 1 | Screen_Maintained_0(Set Val | \$10.0 | 0 | 1 |
| 13:02:23 | 09/29/2020 | 11 | 1 | Screen_Numeric EntrySet Val | \$100 | 0 | 99 |
| 13:02:28 | 09/29/2020 | 11 | 1 | Screen_Maintained_0(Set Val | \$10.0 | 1 | 0 |
| 13:02:31 | 09/29/2020 | 11 | 1 | Screen_Maintained_0/Set Val | \$10.0 | 0 | 1 |
| 13:02:34 | 09/29/2020 | 11 | 1 | Screen_Numeric EntrySet Val | \$100 | 99 | 88 |
| 13:02:37 | 09/29/2020 | 11 | 1 | Screen_Maintained_0/Set Val | \$0.0 | 0 | 1 |
| 13:03:04 | 09/29/2020 | 11 | 1 | Screen_Numeric EntrySet Val | \$100 | 88 | 55 |
| 13:03:09 | 09/29/2020 | 11 | 1 | Screen_Numeric EntrySet Val | \$100 | 55 | 33 |
| 13:03:10 | 09/29/2020 | 11 | 1 | Screen_Maintained_0/Set Val | \$10.0 | 1 | 0 |
| 13:03:12 | 09/29/2020 | 11 | 1 | Screen_Maintained_0/Set Val | \$10.0 | 0 | 1 |
| 13:03:16 | 09/29/2020 | 11 | 1 | Screen_Numeric EntrySet Val | \$100 | 33 | 123 |
| | | | | | | | |

Cloud Integration



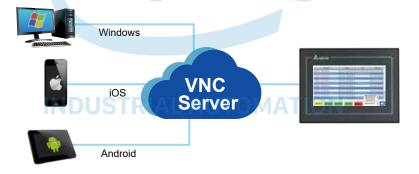
FTP Server

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



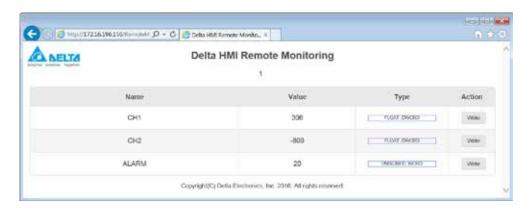
VNC Server

- ▶ Built-in VNC server allows remote monitoring and operating of the DOP-100 Series via VNC Client APP (Windows, iOS, Android)
- Lock function: block remote operation during on-site operation to avoid unsynchronized commands. VNC server allows remote monitoring but not remote operation when the lock function is on



Web Monitoring

▶ Allows direct monitoring of register data via web page, and requires no additional software installation



Hardware Specifications

Advanced HMI

| | Model | | Advanced Narrow Frame Type | | | |
|--------------------|-------------------------------------|--|--|----------------------------|--|--|
| | Model | DOP-103WQ | DOP-107WV | DOP-110WS | | |
| | 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 | | |
| LCD Module | Back Light | | LED Back Light | | | |
| | Back Light Brightness (cd/m²) | 400 | 450 | 450 | | |
| | Back Light Life (Hour) [™] | 10,000 | 20,000 | 30,000 | | |
| | Display Area | 95.04 x 53.856 mm | 154.08 x 85.92 mm | 225.52 x 128.10 mm | | |
| | 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 | M | ulti-Tone Frequency (2K ~ 4K Hz) / 80d | dB | | |
| | Ethernet Interface | | 1 Port *2, 10/100 Mbps auto-sensing | | | |
| | USB | 1 | USB Slave Ver 2.0 / 1 USB Host Ver 2 | 2.0 | | |
| | SD | N | /A | SD x 1 | | |
| On wind | СОМ1 | RS-232 (supports hardware flow control) / RS-485 ⁻² RS-232 (supports hardware flow control) | | | | |
| Serial COM Port | COM2 | RS-422 / RS-485 ¹² RS-232 (supports hardware flow control) / RS-485 ¹³ | | | | |
| | СОМЗ | N/A RS-422 / RS-485 *2 | | | | |
| | RTC | Built-in | | | | |
| | Cooling | Natural air circulation | | | | |
| | Certification | CE / UL | | | | |
| | Waterproof | IP6 | 5 / NEMA4 / UL Type 4X (indoor use o | nly) | | |
| | Operation Voltage *3 | DC +24V (-15% ~ 15%) ⁻² | | | | |
| | Voltage Endurance | A599V for 1 minu | ute (between charging DC24 terminal a | and FG terminals) | | |
| F | Power Consumption *5 | Max. 5.8 W *3 | Max. 8.4 W *3 | Max. 11 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 | | | | |
| 0 | perating 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 | IEC 60068-2-27 compl | iant 15g peak for 11ms duration, X, Y, X | Z, directions for 6 times | | |
| Dime | ensions (W) x (H) x (D) mm | 137 x 103 x 37.1 | 196 x 136 x 39 | 270 x 180.9 x 47.75 | | |
| Mounti | ing dimension (W) x (H) mm | 118.8 x 92.8 | 186.8 x 126.8 | 255 x 170.5 | | |
| | Weight | 280 g | 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 an 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

Advanced HMI

| | Model | Advanced Narr | ow Frame Type | Advanced Multimedia Type | | | | | |
|---------------|-------------------------------------|---|-------------------------------|------------------------------|---------------------|--|--|--|--|
| | Model | DOP-112WX | DOP-115WX | DOP-112MX | DOP-115MX | | | | |
| | Display | 12" TFT LCD | 15" TFT LCD | 12" TFT LCD | 15" TFT LCD | | | | |
| | Color | | 24bit | | | | | | |
| | Resolution (Pixels) | | 1024 | x 768 | | | | | |
| LCD Module | Back Light | | LED Ba | ck Light | | | | | |
| Wiodule | Back Light Brightness (cd/m²) | 500 | 450 | 500 | 450 | | | | |
| | Back Light Life (Hour) [™] | | 50,1 | 000 | | | | | |
| Display Area | | 245.76 x 184.32 mm | 304.1 x 228.1 mm | 245.76 x 184.32 mm | 304.1 x 228.1 mm | | | | |
| MCU | | | Dual Co | re 1GHz | | | | | |
| | Flash ROM (Bytes) | | 80 | ЭВ | | | | | |
| | RAM (Bytes) | | DDR3 100 | 0MHz 1GB | | | | | |
| | Touch Panel | | Four-wire resistor, over 1 | 0,000,000 pressing times | | | | | |
| | Buzzer | | Multi-Tone Frequency | y (2K ~ 4K Hz) / 85dB | | | | | |
| | Ethernet Interface | | 2 Port, 100 | OM bps x 2 | | | | | |
| | USB | <i></i> | 1 Mini USB Slave Ver 2 | 2.0 / 1 USB Host Ver 2.0 | | | | | |
| | SD | | SD | x 1 | | | | | |
| | COM1 | RS-232 (supporting flow control) / RS485 *2 | | | | | | | |
| Serial | COM2 | RS-422 / RS485 ⁻² | | | | | | | |
| OM Port | СОМЗ | RS-232 (supporting flow control) / RS-485 ⁻² | | | | | | | |
| | COM4 | | RS-422 | / RS485 | | | | | |
| | RTC | Built-in | | | | | | | |
| | Cooling | Natural air circulation | | | | | | | |
| | Certification | CE / UL | | | | | | | |
| | Waterproof | IP65 / NEMA4 / UL Type 4X (indoor use only) | | | | | | | |
| | Operation Voltage *3 | DC +24V (-15% ~ 15%) *2 | | | | | | | |
| | Voltage Endurance | A599V | for 1 minute (between chargi | ng DC24 terminal and FG ter | minals) | | | | |
| | Power Consumption *5 | Max. 16.08W | Max. 21.12W | Max. 16.08W | Max. 21.12W | | | | |
| | Backup Battery | | 3V lithium batte | ery CR2032 × 1 | | | | | |
| | Backup Battery Life | Depends on the temperature used and the conditions of usage, usually about 3 years or more at 25° C | | | | | | | |
| | peration Temperature | <u> </u> | | · 50°C | • | | | | |
| | Storage Temperature | | | ~ 60°C | | | | | |
| | Ambient Humidity | 10% ~ 90 | % RH (0 ~ 40° C), 10% ~ 55° | % RH (41 ~ 50° C), Pollution | Degree 2 | | | | |
| | Viberation | | oliant 5Hz ~ 8.3Hz = Continuo | | | | | | |
| | Shock | <u> </u> | .27 compliant 15g peak for 11 | <u> </u> | | | | | |
| | nsions (W) x (H) x (D) mm | 317.4 x 246.4 x 52.7 | 387.7 x 295.7 x 63.5 | 317.4 x 246.4 x 52.7 | 387.7 x 295.7 x 63. | | | | |
| Dime | | | | | | | | | |
| | ng dimension (W) x (H) mm | 302.7 x 228.7 | 372.4 x 283.7 | 302.7 x 228.7 | 372.4 x 283.7 | | | | |

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 an HMI. 4) Built-in power isolation

⁴⁾ built-in 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.
7) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.
8) 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

Hardware Specifications

Standard HMI

| | Model | Standard General Type | | | | | |
|-------------------|-------------------------------|---|--------------------------------|---------------------------------|--|--|--|
| | Wodel | DOP-105CQ | DOP-107CV | DOP-110CS | DOP-110CG | | |
| | Display | 5.6" TFT LCD | 7" TFT LCD | 10" TFT LCD | 10.4" TFT LCD | | |
| | Color | | 65,5 | 536 | | | |
| | Resolution (Pixels) | 320 x 234 | 800 x 480 | 1024 x 600 | 800 x 600 | | |
| LCD Module | Back Light | | LED Ba | ck Light | | | |
| | Back Light Brightness (cd/m²) | 200 | 400 | 300 | 300 | | |
| | Back Light Life (Hour) *1 | | 200 | 00 | | | |
| | Display Area | 113.28 x 84.70 mm | 154.08 X 85.92 mm | 226 X 128.7 mm | 211.2 x 158.4 mm | | |
| | MCU | | ARM Cortex- | 48 (800MHz) | | | |
| | Flash ROM (Bytes) | | 256 M | bytes | | | |
| | RAM (Bytes) | | 256 M | bytes | | | |
| | Touch Panel | Four-wire re | esistor, over > 10,000,000 pre | ssing times | Four-wire resistor, over 1,000,000 pressing time | | |
| Audio | Buzzer | /hai | Multi-Tone Frequency | (2K ~ 4K Hz) / 80dB | , , , , | | |
| Output | AUX | 7 | N | A | | | |
| | USB | | 1 USB Slave Ver 2.0 | / 1 USB Host Ver 2.0 | | | |
| | SD | N/A | | | | | |
| | COM1 | RS-232 (supports hardware flow control) ^{*2} | | | | | |
| Serial OM Port | COM2 | RS-232 (supports hardware flow control) / RS-485 ¹² | | | | | |
| | сомз | RS-422 / RS-485 ⁻² | | | | | |
| | RTC | Built-in | | | | | |
| | Cooling | Nature 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 | A500V | for 1 minute (between chargi | ng DC24 terminal and FG te | rminals) | | |
| F | Power Consumption ⁵⁵ | Max. 6.86 W ^{*3} | Max. 8.5 W *3 | Max. 10.4 W ^{*3} | Max. 8W ^{*3} | | |
| | Backup Battery | | 3V lithium batte | ry CR2032 × 1 | ' | | |
| | Backup Battery Life | Depends on the temper | erature used and the condition | ns of usage, usually about 3 | years or more at 25° C | | |
| 0 | peration Temperature | | 0°C ~ | 50°C | | | |
| : | Storage Temperature | | -20°C | ~ 60 °C | | | |
| | Ambient Humidity | 10% ~ 90 | 0% RH (0 ~ 40° C), 10% ~ 55° | % RH (41 ~ 50° C), Pollution | Degree 2 | | |
| | Vibration | IEC 61131-2 comp | oliant 5Hz ~ 8.3Hz = Continuo | us: 3.5mm, 8.3Hz ~ 150Hz | = Continuous: 1.0g | | |
| | Shock | IEC 60068-2- | -27 compliant 15g peak for 11 | ms duration, X, Y, Z, direction | ons for 6 times | | |
| Dime | nsions (W) x (H) x (D) mm | 184 x 144 x 50 | 215 x 161 x 61.2 | 272 x 200 x 61 | 229 x 224 x 46.8 | | |
| Mounti | ng dimension (W) x (H) mm | 172.4 x 132.4 | 196.9 x 142.9 | 261.3 x 189.3 | 285.2 x 210.2 | | |
| | | | | | | | |

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 an HMI.6

²⁾ Built-in power isolation3) 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

Standard HMI

| | Model | Standard Etherr | et Type (2 COM) | |
|--------------------|---|--|---|--|
| | model | DOP-107EG | DOP-107EV | |
| | Display | 7" TFT LCD | 7" TFT LCD | |
| | Color | 65, | 536 | |
| | Resolution (Pixels) | 800 x 600 | 800 x 480 | |
| LCD Module | Back Light | LED Ba | ck Light | |
| | Back Light Brightness (cd/m²) | 450 | 400 | |
| | Back Light Life (Hour) ^{*1} | 20000 | 20000 | |
| | Display Area | 141 X 105.75 mm | 154.08 X 85.92 mm | |
| | MCU | ARM Cortex- | A8 (800MHz) | |
| | Flash ROM (Bytes) | 256 N | lbytes | |
| | RAM (Bytes) | 256 N | lbytes | |
| | Touch Panel | Four-wire resistor, over > | 10,000,000 pressing times | |
| Audio | Buzzer | Multi-Tone Frequency | / (2K ~ 4K Hz) / 80dB | |
| Output | AUX | Stereo output | N/A | |
| | Ethernet Interface | 1 Port ^{'2} , 10/100 M | lbps auto-sensing | |
| | USB | 1 USB Slave Ver 2.0; 1 USB Host Ver 2.0 | | |
| | SD | SDx1 | N/A | |
| | СОМ1 | RS-232 (supports ha | rdware flow control) ^{*2} | |
| Serial COM Port | СОМ2 | RS-232 (supports hardware flow control) / RS-485 ^{'2} | | |
| | сомз | RS-422 / | RS-485 ^{*2} | |
| | RTC | INDUSTRIAL AUTON Built-in ION | | |
| | Cooling | Natural air | circulation | |
| | Certification | CE / UL (please equip Shielding cables and | linefilters with capacity of 300ohm/100MHz) | |
| | Waterproof | IP65 / NEMA4 / UL Typ | e 4X (indoor use only) | |
| | Operation Voltage *3 | DC +24V (-15% ~ +15%)(please e Supplied by Class 2 or SELV circuit (iso | | |
| | Voltage Endurance | A500V for 1 minute (between chargi | ng DC24 terminal and FG terminals) | |
| F | Power Consumption *5 | Max. 8.4W ^{*3} | Max. 8.76 W *3 | |
| | Backup Battery | 3V lithium batte | ry CR2032 × 1 | |
| | Backup Battery Life | Depends on the temperature used and the condition | ns of usage, usually about 3 years or more at 25° C | |
| 0 | perating 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 = Continuo | ous: 3.5mm, 8.3Hz ~ 150Hz = Continuous: 1.0g | |
| | Shock | IEC 60068-2-27 compliant 15g peak for 11 | ms duration, X, Y, Z, directions for 6 times | |
| Dime | nsions (W) x (H) x (D) mm | 184 x 144 x 51.5 | 215 x 161 x 61.2 | |
| Mounti | ing dimension (W) x (H) mm | 172.4 x 132.4 | 196.9 x 142.9 | |
| | Weight | 800 g | 970g | |
| ha half life | af a basilitate to define a decreasion of the | uminance being reduced by 50% when the maximum driving curren | 4 in a complicated and 1940 | |

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 an HMI.

²⁾ Built-in over 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

Hardware Specifications

Standard HMI

| | Model | Standard Ethernet Type (3 COM) | | | | | |
|--------------------|-------------------------------|--|--------------------------------|------------------------------|------------------------------|--|--|
| | Model | DOP-107IV | DOP-108IG | DOP-110IS | DOP-110IG | | |
| | Display | 7" TFT LCD | 8" TFT LCD | 10.1" TFT LCD | 10.4" TFT LCD | | |
| | Color | 65,536 | | | | | |
| | Resolution (Pixels) | 800 x 480 | 800 x 600 | 1024 x 600 | 800 x 600 | | |
| LCD Module | Back Light | | LED Ba | ck Light | | | |
| | Back Light Brightness (cd/m²) | 400 | 250 | 300 | 300 | | |
| | Back Light Life (Hour) *1 | | 200 | 000 | | | |
| | Display Area | 152.4 x 91.44 mm | 162 x 121.5 mm | 226 x 128.7 mm | 211.2 x 158.4 mn | | |
| | MCU | | ARM Cortex- | A8 (800MHz) | | | |
| | Flash ROM (Bytes) | | 256 M | bytes | | | |
| | RAM (Bytes) | | 256 M | bytes | | | |
| | Touch Panel | | Four-wire resistor, over > 1 | 10,000,000 pressing times | | | |
| Audio | Buzzer | 160 | Multi-Tone Frequency | (2K ~ 4K Hz) / 80dB | | | |
| Output | AUX | N/A | | Stereo output | | | |
| | Ethernet Interface | | 1 Port*2, 10/100 M | bps auto-sensing | | | |
| | USB | | 1 USB Slave Ver 2.0 | / 1 USB Host Ver 2.0 | | | |
| | SD | SD x 1 | | | | | |
| | COM1 | RS-232 (supports hardware flow control) ⁻² | | | | | |
| Serial COM Port | COM2 | RS-232 (supports hardware flow control) / RS-485 *2 | | | | | |
| | СОМЗ | RS-232 (supports hardware flow control) / RS-422 / RS-485 ⁻² | | | | | |
| | RTC | IDLICTRIAL ALITOM Built-in ONL | | | | | |
| | Cooling | Nature air circulation | | | | | |
| | Certification | CE / UL (please equip shielding cables and linefilters with capacity of 300ohm/100MHz) | | | | | |
| | Waterproof | | IP65 / NEMA4 / UL Typ | e 4X (indoor use only) | | | |
| | Operation Voltage *3 | | 24V (-15% ~ +15%)(please e | | | | |
| | Voltage Endurance | | for 1 minute (between chargi | • | , | | |
| F | Power Consumption *5 | Max. 12W ^{*3} | Max. 9.88 W *3 | Max. 9.6 W *3 | / Max. 9.6W ^{*3} | | |
| | Backup Battery | | 3V lithium batte | | | | |
| | Backup Battery Life | Depends on the tempe | erature used and the condition | ns of usage, usually about 3 | years or more at 25° C | | |
| 0 | Operation Temperature | · | 0°C ~ | 50°C | <u>-</u> | | |
| ; | 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 comp | oliant 5Hz ~ 8.3Hz = Continuo | ous: 3.5mm, 8.3Hz ~ 150Hz = | = Continuous: 1.0g | | |
| | Shock | | -27 compliant 15g peak for 11 | | | | |
| | uncione (M) x (H) x (D) mm | 215 x 161 x 61.2 | 227.1 x 174.1 x 61 | 272.6 x 200.6 x 54 | 299 x 224 x 46.8 | | |
| Dime | | | | | | | |
| | ing dimension (W) x (H) mm | 196.9 x 142.9 | 219.4 x 166.5 | 261.3 x 189.3 | 285.2 x 210.2 | | |

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 an HMI.6

Built-in power isolation
 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

Basic HMI

| | Model | Basic | Basic Ethernet Type | | | |
|--------------------|--------------------------------------|--|--|----------------------------------|--|--|
| | Model | DOP-103BQ | DOP-107BV | DOP-107DV | | |
| | Display | 4.3" TFT LCD | 7" TFT LCD | 7" TFT LCD | | |
| | Color | | 65,536 | | | |
| | Resolution (Pixels) | 480 x 272 | 800 x 480 | 800 x 400 | | |
| LCD Module | Back Light | | LED Back Light | 1 | | |
| | Back Light Brightness (cd/m²) | | 400 | | | |
| | Back Light Life (Hour) ^{*1} | 20000 | | | | |
| | Display Area | 95.04 x 53.856 mm | 154.08 x 85.92 mm | 154.08 x 85.92 mm | | |
| | MCU | | ARM Cortex-A8 (800MHz) | | | |
| | Flash ROM (Bytes) | | 256 Mbytes | | | |
| | RAM (Bytes) | | 256 Mbytes | | | |
| | Touch Panel | Four-w | vire resistor, over > 10,000,000 pressing | g times | | |
| Audio | Buzzer | M | ulti-Tone Frequency (2K ~ 4K Hz) / 80d | dB | | |
| Output | AUX | /nnn | N/A | | | |
| | Ethernet Interface | N/A | N/A | 1 Port, 10/100 Mbps auto-sensing | | |
| | USB | 1 | USB Slave Ver 2.0 / 1 USB Host Ver 2 | 1.0 | | |
| | SD | N/A | | | | |
| | COM1 | RS-232/RS-485 (supports hardware flow control) ⁻² | | | | |
| Serial COM Port | COM2 | RS-422 / RS-485 ⁻² | | | | |
| | сомз | N/A | | | | |
| | RTC | Built-in | | | | |
| | Cooling | NDUSTRIAL A | Nature air circulation | | | |
| | Certification | CE / UL (please equip s | nielding cables and linefilters with capa | city of 300ohm/100MHz) | | |
| | Waterproof | IP6 | 5 / NEMA4 / UL Type 4X (indoor use o | nly) | | |
| | Operation Voltage *3 | | % ~ +15%)(please equip isolated-type p or SELV circuit (isolated from MAINS I | | | |
| | Voltage Endurance | A500V for 1 minu | ute (between charging DC24 terminal a | and FG terminals) | | |
| F | Power Consumption ⁵⁵ | Max. 5.67W *3 | Max. 8.6 W *3 | Max. 8.8W ^{*3} | | |
| | Backup Battery | | 3V lithium battery CR2032 × 1 | | | |
| | Backup Battery Life | Depends on the temperature us | ed and the conditions of usage, usually | y about 3 years or more at 25° C | | |
| 0 | peration 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 | IEC 60068-2-27 compl | iant 15g peak for 11ms duration, X, Y, 2 | Z, directions for 6 times | | |
| Dime | nsions (W) x (H) x (D) mm | 137 x 103 x 37.1 | 215 x 161 x 35.5 | 215 x 161 x 35.5 | | |
| Mounti | ing dimension (W) x (H) mm | 118.8 x 92.8 | 196 x 142.9 | 196 x 142.9 | | |
| | Weight | 280 g | 700 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 an HMI.6 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

Hardware Specifications

Handheld HMI

| Model | | Handheld HMI | | | | | |
|---------------|---|--|--|--|--|--|--|
| | | DOP-107HS4xx | DOP-107HE4xx | DOP-107HE4xxZM | DOP-107HE47xZI | | |
| | Display | | 7" TF | TLCD | | | |
| | Color | | 65 | 536 | | | |
| | Resolution (Pixels) | | 800 | x 480 | | | |
| LCD Module | Back Light | | LED Ba | ick Light | | | |
| ouu.o | Back Light Brightness (cd/m²) | 400 | 400 450 450 | | | | |
| | Back Light Life (Hour) *1 | 10,000 | 20,000 | 30, | 000 | | |
| | Display Area | | 154.08 x | 85.92 mm | | | |
| | MCU | | ARM Cortex | x-A8 (800MHz) | | | |
| | Flash ROM (Bytes) | | 256 | 6 MB | | | |
| | RAM (Bytes) | | 512 | 2 MB | | | |
| | Touch Panel | | Four-wire resistor, over > | 10,000,000 pressing times | | | |
| | Buzzer | | Multi-Tone Frequence | y (2K ~ 4K Hz) / 80dB | | | |
| | Ethernet Interface | N/A | 1 Port *2, 10/100 | Mbps auto-sensing | 1 Port *2, 10/100 Mbp auto-sensing | | |
| | USB | | 1 USB Sla | ave Ver 2.0 | | | |
| | SD | | SD/ | SDHC | | | |
| Serial | COM Port/Communication | RS-232/ RS-485 | N | /A | N/A | | |
| | | B conta | act x 2 | A contact x 1 | /B contact x 1 | | |
| E | mergency stopswitch | Rated voltage: < DC 30V Maximum rated current: 1AMinimum allowable load: DC 5V / 1 mAComplies with IEC60947-5-1, EN60947-5-1, IEC60947-5-5, EN60947-5-5, UL 508, CSA C22.2 No.14, GB 14085.5 | | | | | |
| | | A contact x 1 | | | | | |
| 3-рс | osition operation switch | Rated voltage: < DC 30VMaximum rated current: 700 mAMinimum allowable load: DC 3V / 5 mAComplies with El IEC60947-5-8, IEC60947-5-1, EN60947-5-1, JIS C8201-5-1, UL508, CSA C22.2 NO. 14Applicable standards for use with ISO12100-1,-2/EN12100-1,-2, IEC60204-1/EN60204-1, ISO11161/prEN11161, ISO10218/EN775, ANSI/R R15.06, ANSI B11.19 | | | | | |
| | мрс | IDUSTRIAL | Rated volta Resolutic Output waveform: square Phase difference betw | ge: < DC 24V | | | |
| | Auxiliary keyboard | | 15 Function Keys | | 21 Function Keys | | |
| | Cable length | | ` | f model name = 5) f model name = A) | 1 | | |
| Calendar | | | Built-in | | | | |
| | | Natural cooling | | | | | |
| | Cooling method | | | | | | |
| | Cooling method Certification | | Natura | | | | |
| | | | Natura (| cooling | | | |
| | Certification | (supp | Natura (IF DC +24V (-1 | cooling | ation)) | | |
| | Certification Protection rating | | Natura (IF DC +24V (-1 lied by SELV circuits (isolated | cooling CE 54 5% ~ +15%) ^{'2} | | | |
| | Certification Protection rating Operating voltage '3 | | Natura (IF DC +24V (-1 lied by SELV circuits (isolated (C500V for one minute (beta | cooling CE 54 5% ~ +15%) ^{*2} I from MAINS by double insula | | | |
| | Certification Protection rating Operating voltage '3 Leakage current | | Natura IF DC +24V (-1 lied by SELV circuits (isolated C500V for one minute (bet) 4.8 | cooling EE '54 5% ~ +15%) ^{'2} I from MAINS by double insular veen DC24 and FG terminals | | | |
| | Certification Protection rating Operating voltage "3 Leakage current Power consumption"5 | A | Natura (IF DC +24V (-1 lied by SELV circuits (isolated C500V for one minute (beto 4.8 3V lithium batt | cooling EE 54 5% ~ +15%) ^{*2} I from MAINS by double insula veen DC24 and FG terminals 96W | ·/ | | |
| F | Certification Protection rating Operating voltage '3 Leakage current Power consumption'5 Backup battery | A | Natura C DC +24V (-1 lied by SELV circuits (isolated C500V for one minute (beto 4.8 3V lithium batt or more at 25°C (77°F)(subj | cooling EE 54 55% ~ +15%) ¹² I from MAINS by double insulativeen DC24 and FG terminals 96W ery CR2450 × 1 | ·/ | | |
| F | Certification Protection rating Operating voltage '3 Leakage current Power consumption'5 Backup battery Backup battery life Operation temperature | A | Natura OC +24V (-1 DC +24V (-1 lied by SELV circuits (isolated C500V for one minute (beto 4.8 3V lithium batt or more at 25°C (77°F)(subj | cooling EE 54 55% ~ +15%) ^{*2} If from MAINS by double insular even DC24 and FG terminals 96W ery CR2450 × 1 ect to operation temperature | ·/ | | |
| O : | Certification Protection rating Operating voltage '3 Leakage current Power consumption'5 Backup battery Backup battery life Operation temperature Storage temperature | About 5 years | Natura C DC +24V (-1 lied by SELV circuits (isolated C500V for one minute (beto 4.8 3V lithium battor more at 25°C (77°F)(sub) 0°C - -20°C | cooling CE 54 55% ~ +15%) ^{*2} I from MAINS by double insulative DC24 and FG terminals 96W ery CR2450 × 1 ect to operation temperature 40°C ~ 60°C | and condition) | | |
| O : | Certification Protection rating Operating voltage '3 Leakage current Power consumption'5 Backup battery Backup battery life Operation temperature Storage temperature | About 5 years | Natura OC +24V (-1 Ilied by SELV circuits (isolated C500V for one minute (beto C500V for one minute) 4.8 3V lithium battor more at 25°C (77°F)(subj 0°C -20°C -20°C 6% RH (0 ~ 40° C), 10% ~ 55 | cooling EE 54 5% ~ +15%)** I from MAINS by double insular even DC24 and FG terminals 96W ery CR2450 × 1 ect to operation temperature - 40°C ~ 60 °C % RH (41 ~ 50° C), Pollution | and condition) Degree 2 | | |
| O : | Certification Protection rating Operating voltage '3 Leakage current Power consumption'5 Backup battery Backup battery life Operation temperature Storage temperature Operating environment Vibration resistance | About 5 years 10% ~ 90° IEC 61131-2 comp | Natura OC +24V (-1 IF DC +24V (-1 Ilied by SELV circuits (isolated AC500V for one minute (beto) 4.8 3V lithium battor or more at 25°C (77°F)(subjo) O°C - -20°C -20°C RH (0 ~ 40° C), 10% ~ 55 Iliant 5Hz ~ 8.3Hz = Continu | cooling EE 54 55% ~ +15%) ⁻² If from MAINS by double insular even DC24 and FG terminals 96W ery CR2450 × 1 ect to operation temperature - 40°C ~ 60°C % RH (41 ~ 50° C), Pollution ous: 3.5mm, 8.3Hz ~ 150Hz | and condition) Degree 2 Continuous: 1.0g | | |
| 00 (100) | Certification Protection rating Operating voltage '3 Leakage current Power consumption'5 Backup battery Backup battery life Operation temperature Storage temperature | About 5 years 10% ~ 90' IEC 61131-2 comp IEC 60068-2- | Natura OC +24V (-1 DC +24V (-1 lied by SELV circuits (isolated AC500V for one minute (beto 4.8 3V lithium batt or more at 25°C (77°F)(subj O°C - -20°C ARH (0 ~ 40° C), 10% ~ 55 liant 5Hz ~ 8.3Hz = Continu 27 compliant 15g peak for 1 | cooling EE 54 5% ~ +15%)** I from MAINS by double insular even DC24 and FG terminals 96W ery CR2450 × 1 ect to operation temperature - 40°C ~ 60 °C % RH (41 ~ 50° C), Pollution | and condition) Degree 2 Continuous: 1.0g | | |

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 an HMI.6

²⁾ Built-in power isolation

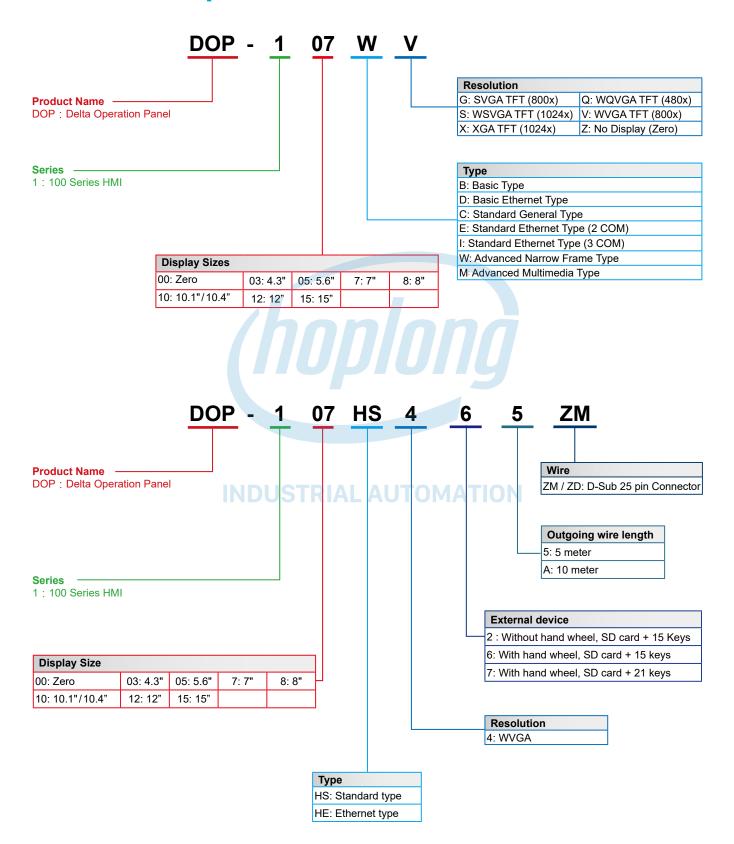
³⁾ An isolated power supply is recommended.

⁴⁾ Some models are in the process of application for UL and KCC certification. For more information, please consult our distributors.

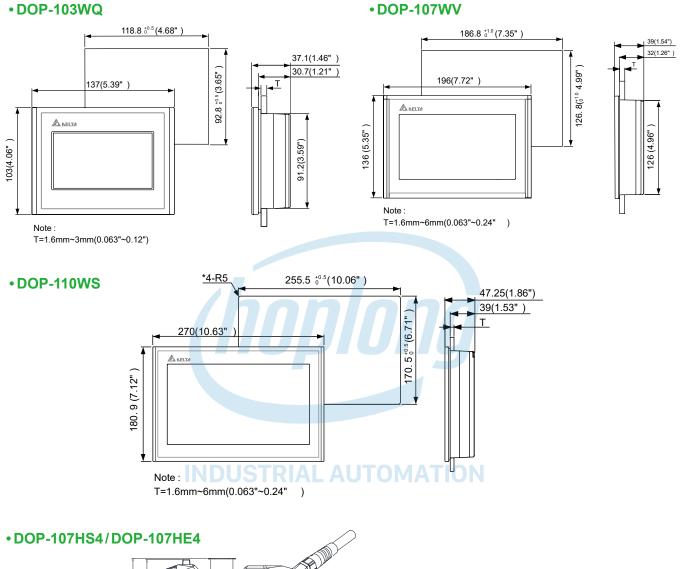
5) The value of the power consumption indicates the electrical power consumed by the HMI with no peripheral devices connected.

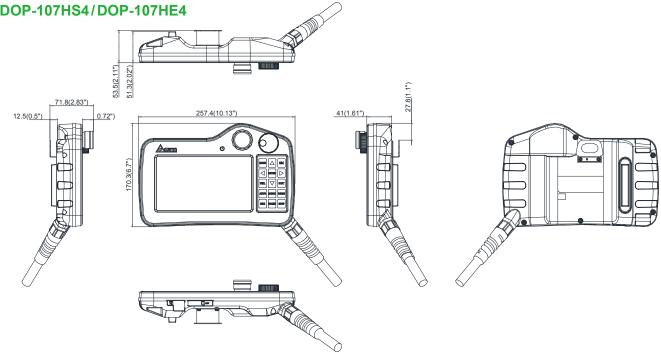
⁶⁾ The content of this catalogue may be revised without prior notice. Please consult our distributors or download the most updated version at http://www.deltaww.com

Model Description

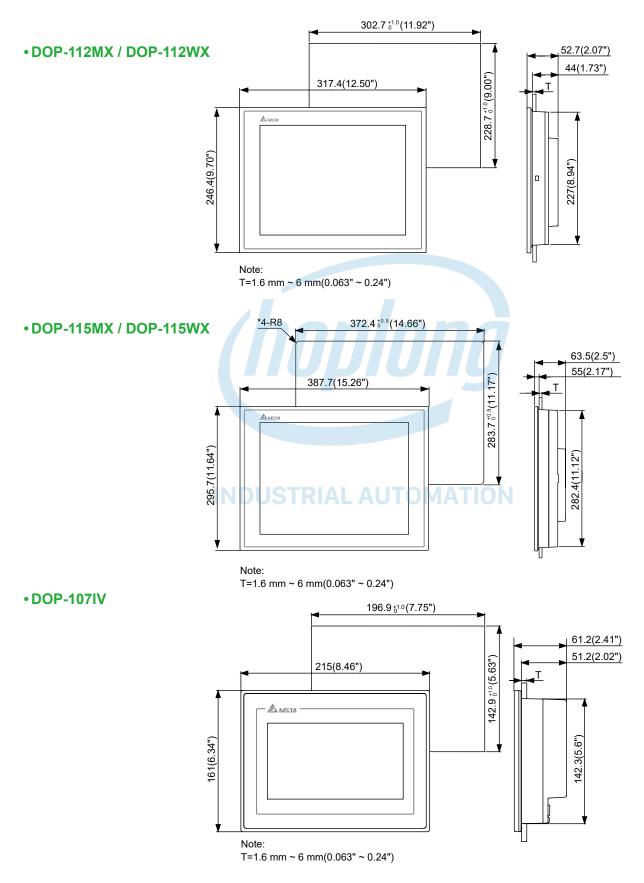


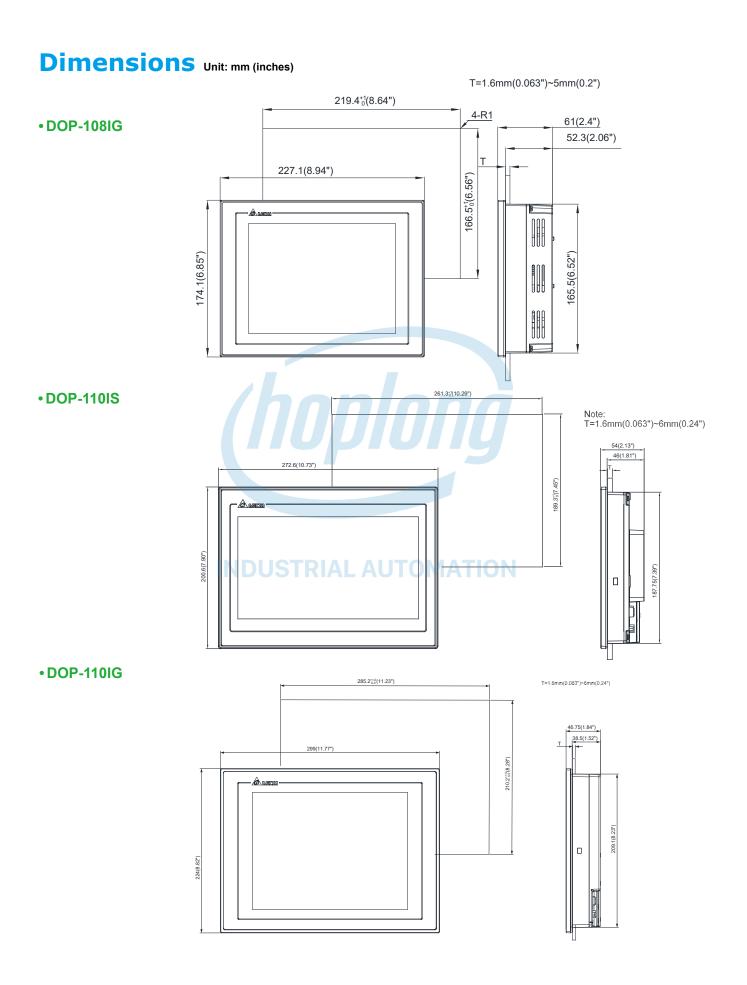
Dimensions Unit: mm (inches)

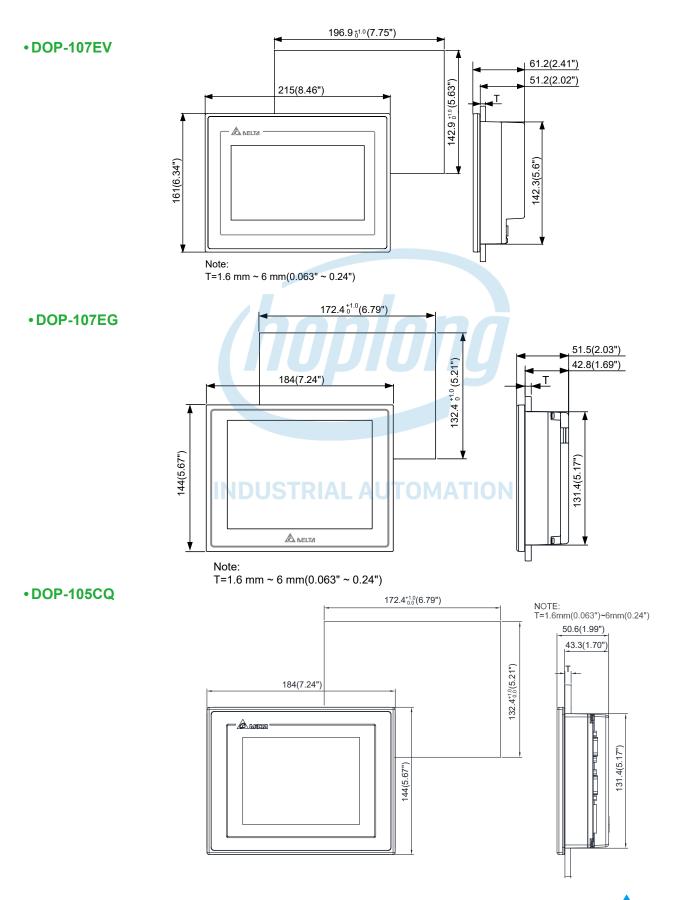




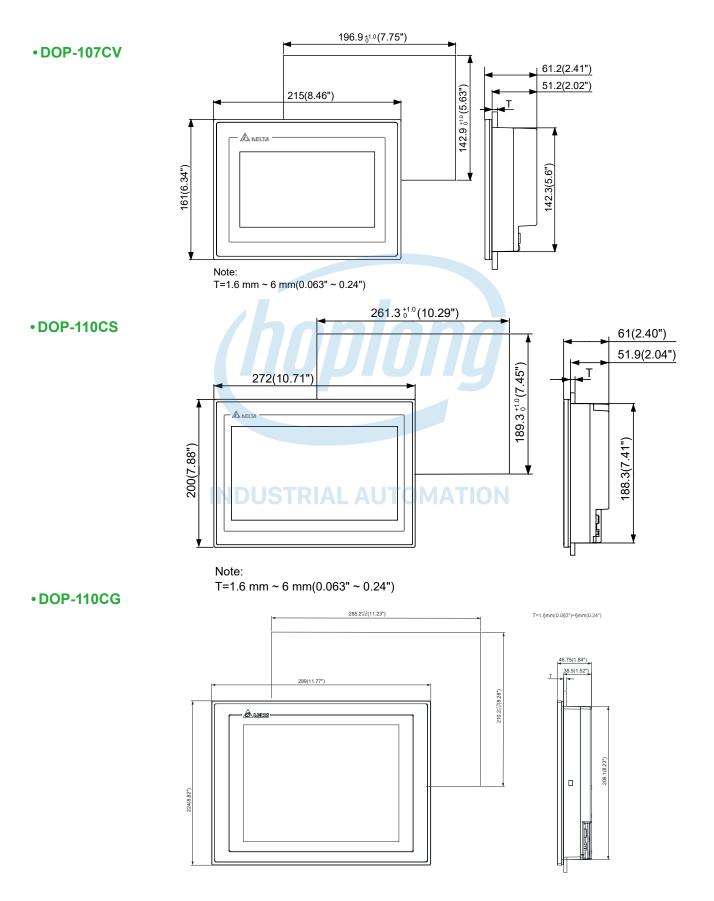
Dimensions Unit: mm (inches)

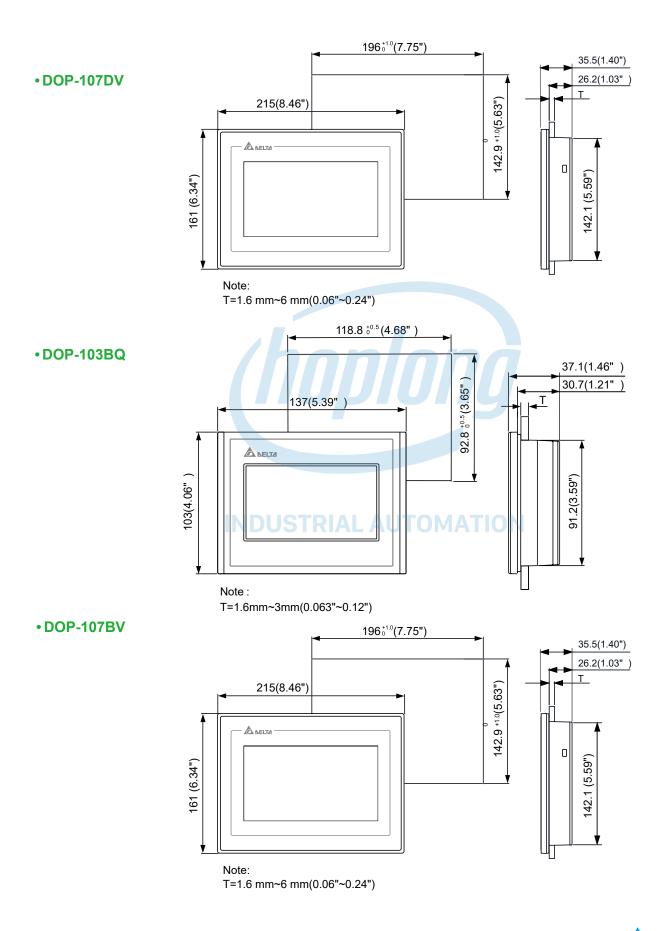






Dimensions Unit: mm (inches)







Smarter. Greener. Together.

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