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› GOWE Delta HMI 10.1 inch HMI Touch Operator Panel Display Screen DOP-B10E615 Ethernet Stereo Output New with USB Program Cable User Manual

GOWE DOP-B10E615

GOWE Delta HMI 10.1 inch Touch Operator Panel Display Screen DOP-B10E615 User Manual

Model: DOP-B10E615

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the GOWE Delta HMI 10.1 inch Touch Operator Panel Display Screen, model DOP-B10E615. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

2. PRODUCT OVERVIEW

The GOWE Delta HMI DOP-B10E615 is a 10.1-inch Human Machine Interface (HMI) touch panel designed for industrial automation applications. It features an Ethernet port and stereo output, providing versatile connectivity and control options. This device is equipped with a USB program cable for easy configuration and data transfer.



Figure 2.1: Front view of the GOWE Delta HMI DOP-B10E615 touch panel. The panel features a large display screen with the Delta logo at the top left and power/status indicators at the bottom right.

3. SETUP AND INSTALLATION

Proper installation is crucial for the reliable operation of the HMI panel. Follow these steps carefully:

1. **Unpacking:** Carefully remove the HMI panel and all accessories from the packaging. Inspect for any signs of damage during transit.
2. **Mounting:** The DOP-B10E615 is designed for panel mounting. Ensure the cutout dimensions in your control panel match the specifications provided in Section 7. Secure the HMI using the provided mounting clips.
3. **Power Connection:** Connect the DC +24V power supply to the designated power terminals on the HMI. Ensure correct polarity.
4. **Ethernet Connection:** Connect an Ethernet cable to the HMI's Ethernet port for network communication.
5. **USB Connection:** Use the provided USB program cable to connect the HMI to a computer for programming and configuration.
6. **Serial Communication:** If using serial communication, connect the appropriate RS-232 or RS-485 cables to the COM ports as required by your application.

Important: Ensure all connections are secure before applying power to the device.

4. OPERATING INSTRUCTIONS

Once installed and powered on, the HMI panel will boot up. The operation of the HMI is primarily through its touch screen interface.

- **Power On/Off:** The device powers on automatically when connected to a 24V DC supply. To power off, disconnect the power supply.
- **Touch Screen Navigation:** Interact with the displayed application by touching the screen. The responsiveness of the touch screen allows for intuitive control.
- **Application Loading:** User applications are loaded onto the HMI via the USB program cable using Delta's programming software. Refer to the software manual for detailed instructions on creating and uploading applications.
- **Ethernet Communication:** Configure the Ethernet settings (IP address, subnet mask, gateway) through the HMI's system settings or via the programming software to enable communication with PLCs or other network devices.
- **Stereo Output:** The HMI features a stereo output. Connect external audio devices if your application requires sound feedback.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your HMI panel.

- **Cleaning:** Use a soft, lint-free cloth dampened with a mild, non-abrasive cleaner to wipe the screen and casing. Do not use harsh chemicals or abrasive materials. Ensure the device is powered off before cleaning.
- **Ventilation:** Ensure that the natural air circulation around the HMI is not obstructed to prevent overheating.
- **Firmware Updates:** Periodically check the GOWE or Delta website for firmware updates. Keeping the firmware updated can improve performance and add new features.
- **Backup Battery:** The HMI uses a 3V lithium battery (CR2032 x 1) for backup. The battery life is approximately 3 years or more at 25°C. Replace the battery when necessary to maintain real-time clock (RTC) and backup memory functionality.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with the DOP-B10E615 HMI panel.

Problem	Possible Cause	Solution
HMI does not power on.	No power supply or incorrect voltage.	Check DC +24V power connection and ensure correct polarity. Verify power supply is active.
Touch screen unresponsive.	Software issue or calibration needed.	Restart the HMI. If issue persists, recalibrate the touch screen via system settings or re-upload the application.
Communication error with PLC.	Incorrect communication settings or cable issue.	Verify Ethernet/serial port settings (IP address, baud rate, parity). Check cable connections and integrity. Ensure PLC is online.
Display flickering or distorted.	Power fluctuations or internal hardware issue.	Ensure stable power supply. If problem continues, contact technical support.

7. SPECIFICATIONS

The following tables detail the technical specifications of the GOWE Delta HMI DOP-B10E615.

MODEL	B075515	B07E515	B07P5515	B085515	B08E515	B105615	B10E615
Display	7" TFT LCD (65536 colors)			8" TFT LCD (65536 colors)		10.1" Widescreen TFT LCD (65536)	
Resolution	800 x 600 pixels			800 x 600 pixels		1024 x 600 pixels	
Back Light	LED Back Light (less than 10,000 hours half-life at 25°C) (Note 1)						
Display Size	141 x 105.75mm			162 x 121.5mm		226 x 128.7mm	
System	Delta Real Time OS						
MCU	32-bit RISC Micro-controller						
NOR Flash ROM	Flash ROM 128 MB(OS System: 30MB / Backup: 16MB / User Application: 82MB)						
SDRAM	64Mbytes						
Backup Memory	16Mbytes						
Sound Effect	Multi-Sound Tone Frequency(2K~4K Hz)85dB						
Output	AUX	N/A	Stereo output	N/A	N/A	Stereo output	N/A
			IEEE802.3 IEEE 802.3u			IEEE 802.3 IEEE802.3u	
			10/100Mbps auto-sensing			10/100 Mbps auto-sensing	
Memory Card	SD Card (supports SDHC)						
USB	1 USB Host (Note 2) Ver2.0/1 USB Slave Ver1.1						

Figure 7.1: Part 1 of the technical specifications for the Delta HMI DOP-B series, focusing on display, resolution, backlight, system, MCU, memory, sound, output, Ethernet, and USB features. The DOP-B10E615 model is highlighted with a 10.1" Widescreen TFT LCD (65536 colors) and 1024 x 600 pixels resolution.

Serial COM Port	COM1	RS-232 (supports hardware flow control)					
	COM2	RS-232 RS-485	RS-232 RS-485	RS-232 RS-485	RS-232 RS-422 RS-485	RS-232 RS-422 RS-485	RS-232 RS-422 RS-485
	COM3	RS-422 RS-485	RS-422 RS-485	RS-422 RS-485	RS-232 RS-422 RS-485	RS-232 RS-422 RS-485	RS-232 RS-422 RS-485
Function Key	N/A						
(RTC)	Built-in						
Cooling Method	Natural air circulation						
Safety Approval	CE/UL (Note 4)/KCC (Note 4)						
Waterproof Degree	IP65/NEMA4						
Operation Voltage	DC +24V	DC +24V	DC +24V	DC +24V	DC +24V	DC +24V	DC +24V
Voltage Endurance	AC500V for 1 minute (between charging (DC24V terminal) and FG terminals)						
Power Consumption (Note 5)	7.68W			5.2W	7.8W	12W	
Backup Battery	3V Lithium battery CR2032 x 1						

Figure 7.2: Part 2 of the technical specifications for the Delta HMI DOP-B series, detailing serial COM ports (RS-232, RS-485), function keys, built-in RTC, cooling method (natural air circulation), safety approvals (CE/UL/KCC), waterproof degree (IP65/NEMA4), operation voltage (DC +24V), voltage endurance, and power consumption (12W for DOP-B10E615).

Backup Battery Life	It depends on the temperature used and the conditions of usage, about 3 years or more at 25°C.		
Operation Temp.	0°C ~ 50°C		
Storage Temp.	-20°C ~ +60°C		
Ambient Humidity	10% ~ 90% RH [0 ~ 40°C], 10% ~ 55% RH [41 ~ 50°C] Pollution Degree 2		
Vibration Resistance	IEC 61131-2 Compliant 5Hz~19Hz = Continuous: 1.75mm/Occasional: 3.5mm 9Hz~150Hz = Continuous: 0.5g/Occasional: 1.0g X, Y, Z directions for 10 times		
Dim(W)x(H)x(D)	184 x 144 x 50mm	227.1 x 174.1 x 61	272 x 200 x 61mm
Panel Cutout (W)x(H)	172.4 x 132.4mm	219.4 x 166.5mm	261.3 x 189.3mm
Weight	Approx.800g	Approx.1226g	Approx.1520g

Figure 7.3: Part 3 of the technical specifications for the Delta HMI DOP-B series, covering backup battery life (approx. 3 years at 25°C), operation temperature (0°C ~ 50°C), storage temperature (-20°C ~ +60°C), ambient humidity, vibration resistance, dimensions (272 x 200 x 61mm for DOP-B10E615), panel cutout (261.3 x 189.3mm), and weight (approx. 1520g).

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official GOWE or Delta documentation provided with your purchase or visit their respective official websites. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may contact GOWE directly through their Amazon store page:[GOWE Amazon Store](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question