

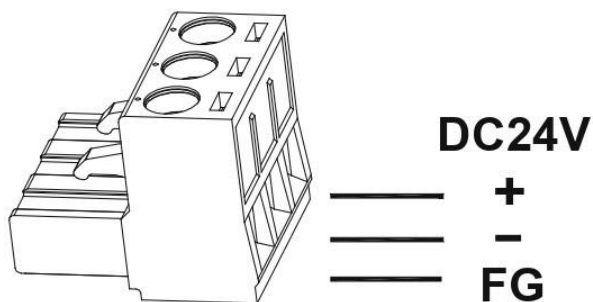


P5101B

HMI with 10.1" TFT LCD display

- Cortex 1GHz Processor
- Built-in Power Isolation
- Built-in PLC Expansion function
- PCB coating for Stability in Harsh Environment
- Fan-less Design for Cooling Method
- High Noise Immunity Design for Industrial Application

	Model	P5101SB	P5101NB	P5101ZB
Display	Panel Size	10.1" TFT (16:9)		
	Panel Resolution	1024 x 600		
	Brightness	300 (cd/m ²)		
	Contrast Ratio	450		
	Backlight Type	LED		
	Backlight Life Time	>30,000 Hrs.		
	Colors	16.7M		
	LCD Viewing Angle	50/20/55/55 (T/B/L/R)		
Touch	Type	4-wire Resistive Type		
	Accuracy	X axis±2%; Y axis±2%		
Memory	Flash	eMMC 4GB		
	RAM	512MB		
System	CPU	64 bit RISC Cortex-A55 1GHz		
	RTC	Yes		
Dimension /Weight	Dimensions W x H x D	266.0 x 180.0 x 38.0 (mm)		
	Cut-out	257.0 x 171.0 (mm)		
	Weight	860 (g)	880 (g)	900 (g)
I/O Port	Serial 1 (DB-9)	COM1 : RS-232 (2W) COM3 : RS-422 (4W) *optional, shared with Terminal Block COM3		
	Serial 2 (Terminal Blocks)	COM3 : RS-422/485 (4W) COM4 : RS-485 (2W)		
	RS-422/485 Isolation	-		
	Ethernet	-	10M / 100M	10M / 100M
	USB HOST	USB2.0 * 1 (USB Type A)		
	USB Device	USB2.0 * 1 (USB Type C)		
	Micro-SD Slot	-	-	Yes
	Audio Output	-		
	Video Input	-		
	Termination Switch	Yes		
I/O Extension	PLC Extension	Yes		
	MPI Extension	Yes		
	Wireless Module	Yes		
Power	Power Input Range	14 ~ 32VDC		
	Power Isolation	Yes		
	Isolation Resistance	Exceed 50MΩ at 500VDC		
	Power Consumption	11.0W (@24VDC)	11.5W (@24VDC)	12.0W (@24VDC)
Environment	Protection Structure	Front panel : IP65 / Rear Case : IP20		
	PCB Coating	Yes		
	Operating Temp	0~50°C		
	Storage Temp	-20 ~ 60°C		
	Relative Humidity	10%~90% (40°C Non-condensing)		
	Withstand Voltage	500VAC/20mA/1 Min. (between charger & FG terminals)		
	Vibration Endurance	5 to 9Hz Half-amplitude: 3.5mm ; 9 to 150 Hz Constant acceleration: 19.6m/s ² (2G) ; 3 directions of X, Y, Z : 10times (IEC61131-2 complaints)		
Software	FvDesigner V1.7 or later versions			
Certification	CE , UL			



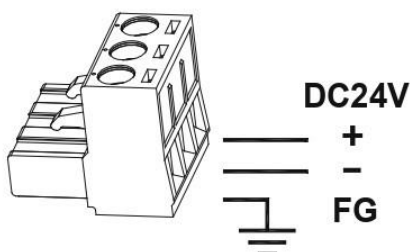
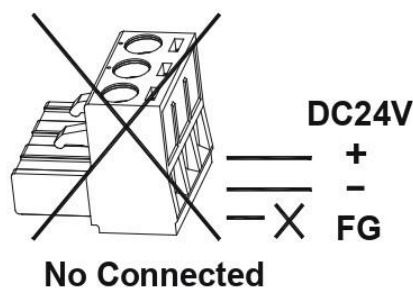
- Be sure to connect the ground FG terminal to a class-3 ground (Ground resistance should not exceed 100Ω). Try to make the ground wire as short as possible.
- Use 22 – 14 AWG (0.6 – 1.5 mm²) wire for the power connections.

**Caution**

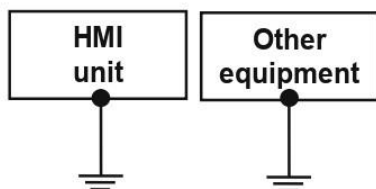
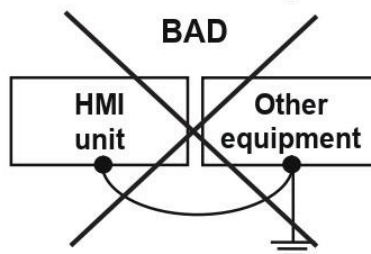
Please use solid wires between 22AWG and 14AWG. Maximum 300V and rated temperature to 105°C for input power pins.

**Caution**

Make sure the HMI is properly grounded to prevent electrical shock, fire or malfunction.

Recommended**Prohibited**

- HMI unit and other equipment should have the same electrical grounding (reference voltage level), otherwise communication errors may occur.

GOOD**BAD****Operation**

- Do not use sharp objects or excessive force to press the touch screen. This may damage the touch screen. Screen protector can be applied to the HMI screen to protect it from damage, for ordering information, please contact our sales department.
- Do not use the output signal of the device as any safety function or system emergency stop. It may result in personal injury or equipment damage if a malfunction of the touch occurs.

Maintenance and Service

- The agreed guarantee applies.
- Only qualified personnel should make repairs and perform maintenance.
- Disconnect the device from the power supply before carrying out cleaning or maintenance.
- Clean the front panel with a soft cloth and mild detergent.
- Please use original replacement spare parts or accessories.