

## P5101ZB

HMI with 10.1" TFT LCD display

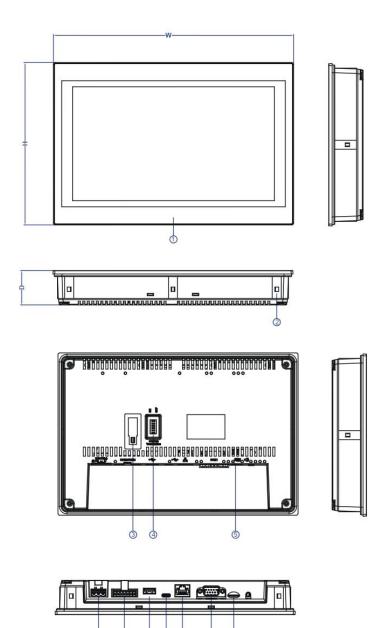
- ♦ Cortex 1GHz Processor
- ♦ Built-in Power Isolation
- ♦ Built-in PLC Expansion function
- ♦ PCB coating for Stability in Harsh Environment
- ♦ Fan-less Design for Cooling Method
- ♦ High Noise Immunity Design for Industrial Application

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	Panel Size	10.1" TFT (16:9)		Serial 1 (DB-9)	RS-232 (2W)	
	Panel Resolution	1024 x 600		Serial 2 (Terminal Blocks)	RS-422/485 (4W) RS-485 (2W)	
	Brightness	300 (cd/m²)		RS-422/485 Isolation	_	
Display	Contrast Ratio	450	I/O Port	Ethernet	10M / 100M	
	Backlight Type	LED		USB HOST	USB2.0 x 1	
	Backlight Life Time	25,000 Hrs		USB Device	USB2.0 x 1(USB Type C)	
	Colors	16.7M		Micro-SD Slot	Yes	
	LCD Viewing Angle	50/20/55/55 (T/B/L/R)		Audio Output	_	
	Туре	4-wire Resistive Type		Video Input	_	
Touch	Accuracy	X axis±2%; Y axis±2%		Termination Switch	Yes	
	Flash	256MB	I/O Extension	PLC Extension	Yes	
Memory	RAM	256MB		HMI Extension	Yes	
Custom	СРИ	32 bit RISC Cortex-A8 1GHz		Wireless Module	Yes	
System	RTC	Yes		Power Input Range	14 ~ 32VDC	
Dimension	Dimensions W x H x D	266.0 x 180.0 x 38.0 (mm)	- Power	Power Isolation	Yes	
Dimension /Weight	Cut-out	257.0 x 171.0 (mm)		Isolation Resistance	Exceed $50M\Omega$ at $500VDC$	
/ vveignt	Weight	900 (g)		Power Consumption	12.02W (@24VDC)	
	Protection Structure	Front panel: IP65 / Rear Cas	e : IP20			
	PCB Coating	Yes				
	Operating Temp	0~50°C				
Stor	Storage Temp	-20 ~ 60°C				
Environment	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/s2 (2G); 3 directions of X, Y, Z: 10times (IEC61131-2 complaints)				
Software	FvDesigner V1.6.42 or later versions					
Certification	CE, UL					
-	•					

Contact : FATEK Automation Corporation Tel : +886-2-2808-2192 WBB : http://www.fatek.com P5101ZB\_DataSheet\_230530

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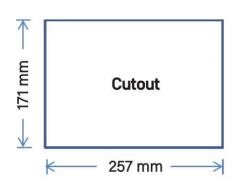
## ◆ Dimensions Drawing



W	266 mm
Н	180 mm
D	38 mm

-	94	
1	Power Indicator Light	
2	Mounting Hole	
3	HB1 PLC Connector	
4	COM3/COM4 Termination Switch	
(5)	HB1 PLC Screw Hole	
6	Power Connector	
7	COM3/COM4: Pluggable Terminal Block	
8	USB Connector	
9	Type C Connector	
10	Ethernet RJ45 Connector (for Ethernet /Multifunction model)	
11)	COM1: DB-9 Male Connector*	
12	Micro-SD Card Slot (for Multifunction model)	

<sup>\*</sup>This series HMI do not support COM2.

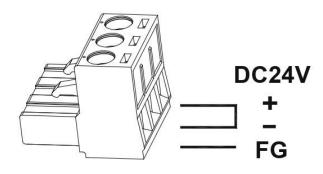


PIN#	COM1 [RS-232]
1	NC <sup>1</sup>
2	RX
3	TX
4	NC
5	GND
6	NC
	NC
7	
8	NC

	Pluggable <sup>*</sup>	Terminal Block	
PIN#	COM3 [RS-422]	COM3 [RS-485]	COM4 [RS-485]
1	NC	NC	DATA+
2	NC	NC	DATA-
3	GND	GND	GND
4	RX+	NC	NC
5	RX-	NC	NC
6	TX+	DATA+	NC
7	TX-	DATA-	NC

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- Be sure to connect the ground FG terminal to a class-3 ground (Ground resistance should not exceed  $100\Omega$ ). Try to make the ground wire as short as possible.
- Use 22 14 AWG (0.6 1.5 mm<sup>2</sup>) wire for the power connections.

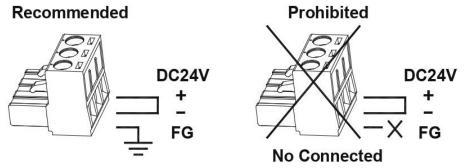


Please use solid wires between 22AWG and 14AWG. Maximum 300V and rated temperature to 105°C for input power pins.

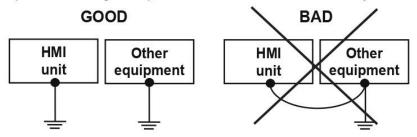


▲ Caution

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



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



## 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 portect if 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.

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