



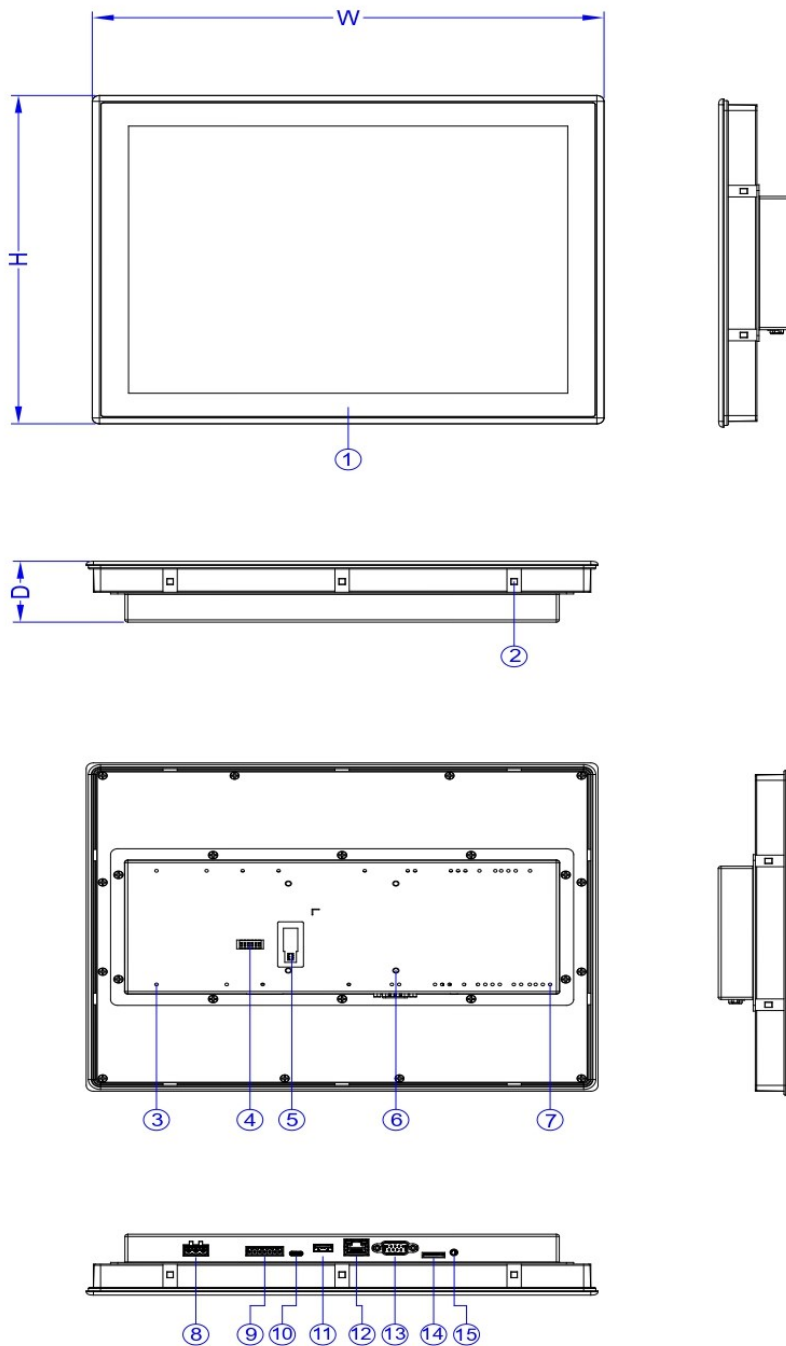
# P5150ZB

HMI with 15" 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

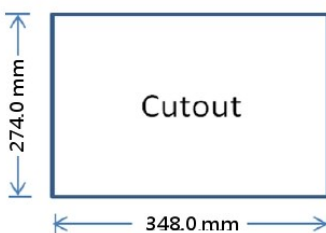
Display	Panel Size	15" TFT (4:3)	I/O Port	Serial 1 (DB-9)	RS-232 (4W)
	Panel Resolution	1024 x 768		Serial 2 (Terminal Blocks)	RS-422/485 (4W) RS-485 (2W)
	Brightness	300 (cd/m <sup>2</sup> )		RS-422/485 Isolation	–
	Contrast Ratio	700		Ethernet	10M / 100M
	Backlight Type	LED		USB HOST	USB2.0 x 1
	Backlight Life Time	50,000 Hrs		USB Device	USB2.0 x 1(USB Type C)
	Colors	16.2M		Micro-SD Slot	Yes
	LCD Viewing Angle	70/70/80/80 (T/B/L/R)		Audio Output	Yes
Touch	Type	4-wire Resistive Type	I/O Extension	Video Input	–
	Accuracy	X axis±2%; Y axis±2%		Termination Switch	Yes
Memory	Flash	256MB	Power	PLC Extension	Yes
	RAM	256MB		HMI Extension	Yes
System	CPU	32 bit RISC Cortex 1GHz		Wireless Module	Yes
	RTC	Yes	Power Input Range	14 ~ 32VDC	
Dimension /Weight	Dimensions W x H x D	357.0 x 283.0 x 52.5 (mm)	Power Isolation	Yes	
	Cut-out	348.0 x 274.0 (mm)	Isolation Resistance	Exceed 50MΩ at 500VDC	
	Weight	3165 (g)	Power Consumption	20W (@24VDC)	
Environment	Protection Structure	Front panel : IP65 / Rear Case : IP20			
	PCB Coating	Yes			
	Enclosure	Metal			
	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 <sup>2</sup> (2G) ; 3 directions of X, Y, Z: 10times (IEC61131-2 complaints)				
Software	FvDesigner V1.5.99 or later versions				
Certification	CE , UL				

## ◆ Dimensions Drawing



W	357.0 mm
H	283.0 mm
D	52.5 mm

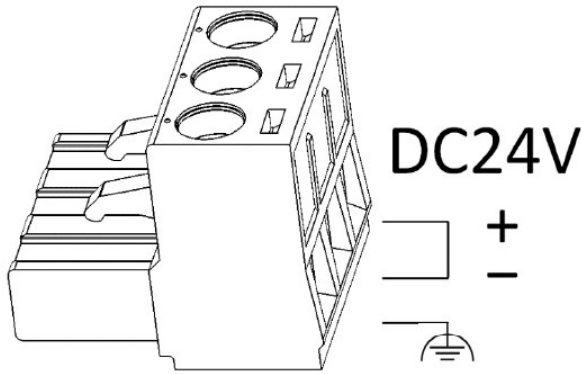
①	Power Indicator Light
②	Mounting Hole
③	Ground Screw Hole (M4)
④	COM3/COM4 Termination Switch
⑤	Expansion Module Connector
⑥	VESA Screw Hole (M4)
⑦	HB1 PLC Screw Hole (M3)
⑧	Power Connector
⑨	COM3/COM4: Pluggable Terminal Block
⑩	USB Type-C Connector
⑪	USB Connector
⑫	Ethernet RJ45 Connector
⑬	COM1: DB-9 Male Connector
⑭	Micro-SD Card Slot
⑮	Audio Phone Jack



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

DB-9 Male Connector	
PIN#	COM1 [RS-232]
1	-*
2	RX
3	TX
4	-
5	GND
6	-
7	RTS
8	CTS
9	-

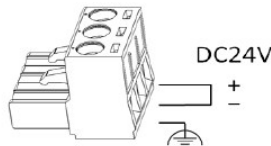
\*: No Connection



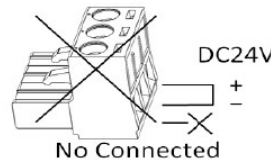
- Be sure to connect the ground FG terminal to a class-3 ground (Ground resistance should not exceed 100Ω). Try to make the ground wire as short as possible.
- Use 24 – 12 AWG (0.201 – 3.24 mm<sup>2</sup>) wire for the power connections.

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

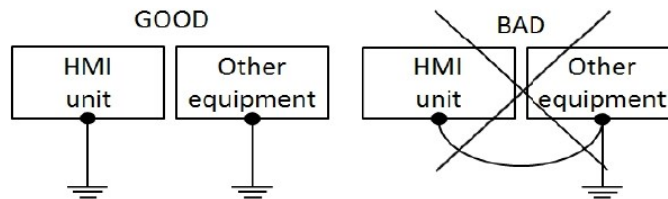
### Recommended



### Prohibited



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



- Wire Routing
  - a .Use cable type - AWG (American Wire Gauge) 24 or better and the corresponding pin type cable terminals. Tighten terminal screws with a torque value of 4.42 lb-in. Do not use excessive force when fixing wiring.
  - a.Utilisez le type de câble - AWG (American Wire Gauge) 24 ou supérieur. Valeur de couple de 4.42 lb-in.
  - b.The rating of the power wire used must be at least 105°C. And for copper conductor.
  - b.Le calibre du fil d'alimentation utilisé doit être d'au moins 105 ° C. Et pour Conducteur en cuivre.
- The product is open type, intended to be installed in and industrial control panel or an enclosure.
- Altitude up to 2000 m. The product is indoor use only, in Pollution Degree 2 environment.
- The power supply must comply with UL60950 or UL61010-1 and 61010-2-201.

### Operation

- Do not use sharp objects or excessive force to press the touch screen. This may damage the touch screen.
- 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.