



# P5070SB

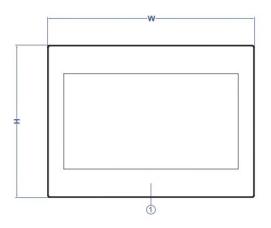
HMI with 7" TFT LCD display

- ♦ 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

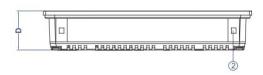
	Panel Size	7" TFT (16:9)		Serial 1 (DB-9)	RS-232 (2W)
	Panel Resolution	anel Resolution 800 x 480	Serial 2 (Terminal Blocks)	RS-422/485 (4W) RS-485 (2W)	
	Brightness	400 (cd/m²)		RS-422/485 Isolation	-
Display	Contrast Ratio	tio 500		Ethernet	_
	Backlight Type	LED	I/O Port	USB HOST	USB2.0 x 1
	Backlight Life Time	30,000 Hrs		USB Device	USB2.0 x 1(USB Type C)
	Colors	16.7M		Micro-SD Slot	-
	LCD Viewing Angle	70/50/70/70 (T/B/L/R)		Audio Output	_
T	Туре	4-wire Resistive Type		Video Input	-
Touch	Accuracy	X axis±2%; Y axis±2%		Termination Switch	Yes
M	Flash	256MB		PLC Extension	Yes
Memory	RAM	128MB	I/O Extension	HMI Extension	Yes
Customs	СРИ	32 bit RISC Cortex 600MHz		Wireless Module	Yes
System	RTC	Yes		Power Input Range	14 ~ 32VDC
Dimension	Dimensions W x H x D	184.0 x 139.0 x 35.0 (mm)	Dawer	Power Isolation	Yes
Dimension /Weight	Cut-out	175.0 x 130.0 (mm)	Power	Isolation Resistance	Exceed 50MΩ at 500VDC
/ vveignt	Weight	465 (g)		Power Consumption	11.5W (@24VDC)
	Protection Structure	Front panel: IP65 / Rear Case	e : IP20		
	PCB Coating	Yes			
	Operating Temp	0~50°C			
	Storage Temp	-20 ~ 60°C			
Environment	Relative Humidity	10%~90% (40°C Non-conde	nsing)		
	Withstand Voltage	500VAC/20mA/1 Min. (between	een charger & FG t	erminals)	
	Vibration Endurance	5 to 9Hz Half-amplitude: 3.5r 9 to 150 Hz Constant acceler 3 directions of X, Y, Z: 10time	leration: 19.6m/s2 (2G) ;		
Software	FvDesigner V1.5.81 o	or later versions			
Certification	CE , UL				

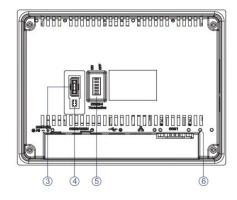


## Dimensions Drawing







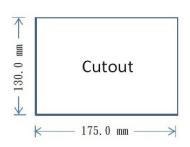




	0000000	層	<b>©</b> [22	<b>3</b> 9	
7	8	9	(	9	<del></del>

W	184.0 mm
Н	139.0 mm
D	35.0 mm

1	Power Indicator Light
2	Fixing hole
3	Expansion module connector
4	HB1 P2C Connector
(5)	COM3/COM4 Termination Switch
6	HB1 PLC Screw Hole
7	Power Terminal Block
8	COM3/COM4 Pluggable Terminal Block
9	USB Connector
10	COM1:DB-9 Male Connector*
11)	TYPE C Connector

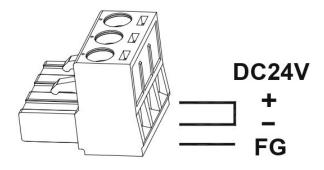


	527 537		67 577
PIN#	COM3 [RS-422]	COM3 [RS-485]	COM4 [RS-485]
1		-	DATA+
2	- 19 <del>-</del>		DATA-
3	GND	GND	GND
4	RX+		2.
5	RX-		15-
6	TX+	DATA+	N-
7	TX-	DATA-	-

Pluggable Terminal Block

DB-9 Male Connector			
PIN#	COM1 [RS-232]		
1	-		
2	RX		
3	TX		
4	: <del></del>		
5	GND		
6			
6 7			
	-		





- 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.

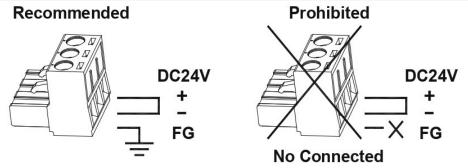


Please use solid wires between 22AWG and 14AWG. Maximum 300V and rated temperature to 105°C for input power pins.

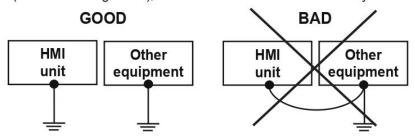


### ▲ Caution

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.