10.1 inch B Series HMI Installation Guide

Thank you for purchasing HMI. Before installing or operating the unit, please read this installation guide carefully to ensure correct use

1. Safety Precautions (Read these precautions before use.)

1.1 General

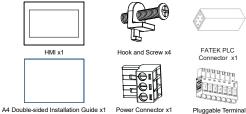
- Unpack and check the delivery for transportation damage. If any damage or deformation is found, please notify the supplier.
- · The supplier is not responsible for the disassembled, altered or modified device
- · Never allow fluid or any conductive particles to enter into the HMI. Otherwise, it may damage the HMI, cause fire or malfunction.
- · Only qualified personnel may install the HMI, perform maintenance and inspection
- · The liquid crystal inside the LCD panel is a hazardous substance. If the panel is damaged, avoid contact with the leaked liquid crystal. If the liquid crystal spills on clothing or skin, use soap and wash off thoroughly. In case of eye contact the liquid, hold the eye open, flush with plenty water and get medical attention as soon as possible.
- Do not touch any terminals while the power is on. Otherwise, it may cause injury due to electrical shock.
- · Disconnect the power supply before installing the HMI, do wiring operation, perform maintenance or inspection. Otherwise, it may cause damage or electrical shock.

1.2 Installation

- The installation may be carried out by gualified personnel only.
- Install the HMI according to the installation procedures.
- Check the power source voltage is within the specified range and the polarity is correct before connecting the HMI
- · Keep signal and power supply cables away from high-voltage, large-current carrying cables.

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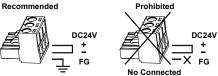
4. Unpacking the Unit



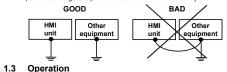
Block x1 5. Installation Procedure 0 Push the HMI into the cutout until the waterproof ring contacts the plate. . Insert a hook into each mounting hole on E the HMI, and then pull up the hook to Cutout avoid the hook slipping away. 4 Tighten the screws evenly with a moderate torque (about 0.2N · m). Stop tightening until the screw is perpendicular to the iron plate. 257 mm Do not lock too tightly when using fixing screws to avoid A Caution other problems.

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Please use solid wires between 22AWG and 14AWG. ▲ Caution Maximum 300V and rated temperature to 105°C for input nower nins Make sure the HMI is properly grounded to prevent electrical A Caution shock, fire or malfunction.

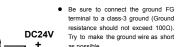


· HMI unit and other equipment should have the same electrical grounding (reference voltage level), otherwise communication errors may occur.



- · 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.
- 1.4 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. 2

6. Power Connection



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terminal to a class-3 ground (Ground resistance should not exceed 1000) Try to make the ground wire as short as possible.

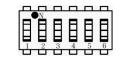
 Use 22 - 14 AWG (0.6 - 1.5 mm²) wire for the power connections.

7. Termination Switch

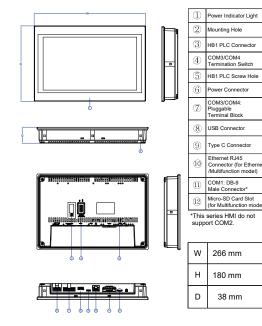
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- 10.1 inch HMI has a built-in termination resistor switch. To enable or disable the termination resistor please follow the configuration shown in the table below. The termination switch is for COM3 [RS-422 / RS-485] and COM4 [RS-485].
- Configuration of Termination Resistor Switch.

Termination Resistor								
No.	COM3 [RS-422]		COM3 [RS-485]		COM4 [RS-485]			
	Enable	Disable	Enable	Disable	Enable	Disable		
1	ON	OFF	OFF	OFF	OFF	OFF		
2	ON	OFF	OFF	OFF	OFF	OFF		
3	ON	OFF	ON	OFF	OFF	OFF		
4	ON	OFF	ON	OFF	OFF	OFF		
5	OFF	OFF	OFF	OFF	ON	OFF		
6	OFF	OFF	OFF	OFF	ON	OFF		



2. Part Names and Dimensions

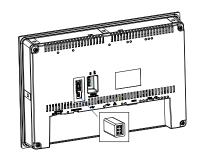


3. Specifications

	Model	10.1" Serial model	10.1" Ethernet model	10.1" Multifunction mod		
	Type of item tested	Control				
	Product Description	Operator Panel				
	Connections to mains	Permanent				
	supply					
	Overvoltage category	II				
	Pollution degree	2				
	Means of Protection	Class III				
UI 61010-1	Environmental conditions	Operating Temp. 0~50°C Storage Temp20~60°C				
Technical	For use in wet locations	No				
Consideration	Equipment mobility	Built in				
	Operating conditions		Continuous	Continuous		
	Overall size	266 x 180 x 38 (mm)				
	Weight	860 (g)	880 (g)	900 (g)		
	Marked degree of		el: IP65 / Rear Case: IP2			
	protection	Type1 to UL 50E				
	Equipment classification	Industrial, Professional, Commercial				
	Equipment class		Class III			
	Equipment type	Permanently connected. Fixed				
			Connector: D-Sub 9-Pin			
	Serial 1	COM1 : RS-232(TXD,RXD)				
		Connector: Pluggable Terminal				
	Serial 2	Block COM3: RS-422/485				
		COM4: RS-485				
	LAN		10M/100M	10M/100M		
I/O Port		USB2.0 Type-A (Host)x1				
	USB	USB2.0 Type mini-B (Device)x1				
	Micro SD			Yes		
	Audio					
	PLC Extension	HB1 main units + B1 extension modules				
	Termination					
	Switch	Yes (For RS-422/485)				
	Power Input	14V-32V(Isolated Power)				
Power	Consumption	500mA@24VDC				
	Insulation	50MΩ at 500VDC				
	Relative Humidity	10%~90%@ 40°C (non-condensing)				
	Withstand Voltage	AC500V/20mA/1 Min. (between charger & FG terminals)				
		5 to 9Hz Half-amplitude: 3.5mm				
Environment	Vibration	9 to 150 Hz Constant acceleration: 19.6m/s ² (2G)				
		3 directions of X, Y, Z: 10times (IEC61131-2 complaints)				
	Noise Suppression	1000Vp-p, width 1us, rising time 1ns				
	Grounding Resistance	Below 100Ω				
Dimension	Cut-out		257 x 171 (mm)			

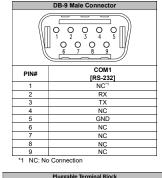
9. PLC Extension Tips

- For compact size and saving space, using HB1 main units + B1 extension modules is recommended
- The rubber cover of the PLC connector can be taken off and placed into the termination switch slot.



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V1.00-09-2022



COM3

[RS-422]

NC

NC

GND

RX+

RX-

TX+

TX-

PIN#

3

COM4

[RS-485]

DATA+

DATA-

GND

NC

NC

NC

NC

COM3

[RS-485]

NC

NC

GND

NC

NC

DATA+

DATA-

7

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8. Pin-out of COM Ports

This series HMI do not support COM2.