10.1 inch 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
- 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 qualified 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.

4. Unpacking the Unit











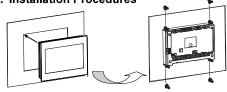
Hook and Screw v4

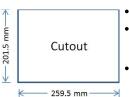
Pluggable Terminal Block x1

PLC Connector

Rubber Cover v1

5. Installation Procedures

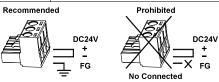




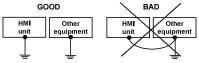
- Push the HMI into the cutout until the waterproof ring contacts the plate.
- . Insert a hook into mounting hole on the HMI (as shown above), then tighten the screw until it is perpendicular to the iron plate, more than 90 degrees will pull out the case and lead to deformation.
- Failure to tighten the screws may cause the HMI to fall malfunction or short-circuit. Excessive tightening may cause deformation. The necessary torgre is about 0.2N-m.

Please use solid wires between 22AWG and 14AWG ▲ Caution | Maximum 300V and rated temperature to 105°C for input

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



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



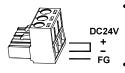
1.3 Operation

- . 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.

6. Power Connection

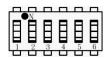


- · Be sure to connect the ground FG terminal to a class-3 ground (Ground resistance should not exceed 1000) Try to make the ground wire as short
- Use 22 14 AWG (0.6 1.5 mm²) wire for the power connections.

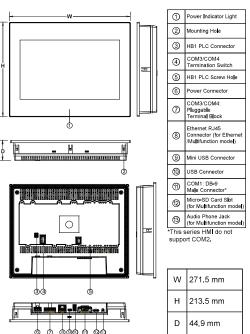
7. Termination Switch

- 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.

1	Termination Resistor										
-	No.	COM3 [RS-422]		COM3 [RS-485]		COM4 [RS-485]					
-	140.	Enab l e	Disab l e	Enable	Disable	Enable	Disab l e				
	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	
	Type of item tested		Control		
	Product Description	Operator Panel			
	Connections to mains	Permanent			
	supply	rermanent			
	Overvoltage category	ll ll			
	Pollution degree	2			
	Means of Protection	Class III			
UL 61010-1 Technical Consideration	Environmental conditions	Operating Temp. 0~50°C			
	Environmental conditions	Storage Temp20~60°C			
	For use in wet locations	No			
	Equipment mobility	Built in			
	Operating conditions	Continuous			
	Overall size	271.5 x 213.5 x 44.9 (mm)			
	Weight	1340 (g)	1360 (g)	1380 (g)	
	Marked degree of	Front panel: IP65 / Rear Case: IP20 to IEC 60529			
	protection	Type 1 to UL 50E			
	Equipment classification	Industrial, Professional, Commercial			
	Equipment class	Class III			
	Equipment type	Permanently connected, Fixed			
	Serial 1	Connector: D-Sub 9-Pin			
	Deligi 1	COM1: RS-232 (TXD, RXD, RTS, CTS)			
		Connector: Pluggable Terminal Block			
	Serial 2	COM3: RS-422/485			
		COM4: RS-485			
	LAN		10M/100M	10M/100M	
I/O Port	USB	USB2.0 Type-A (Host)x1			
	-		SB2.0 Type mini-B (De		
	Micro SD		***	Yes	
	Audio	Yes			
	PLC Extension	HB1 main units + B1 extension modules			
	Termination	Yes (For RS-422/485)			
	Switch				
	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)			
Environment	Vibration	5 to 9Hz Half-amplitude: 3.5mm			
		9 to 150 Hz Constant acceleration: 19.6m/s² (2G)			
	<u> </u>	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	l	259.5 x 201.5 (mn	n)	

8. Pin-out of COM Ports

This series HMI do not support COM2.

PIN#	COM1 [RS-232]				
1	NC*1				
2	RX				
3	TX				
4	NC				
5	GND				
6	NC				
7	RTS				
8	CTS				
9	NC				
#4 NO: No Consention					

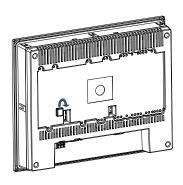
DB-9 Male Connector

*1 NC: No Connection

1 No. No Confection							
	Pluggable Terminal Block						
517 527 537 517 557 567 577 6 6 6 6 6 6 6							
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				

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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