GMTCNT TSG-H150E / TSG-150E

Human Machine Interface Operator Panel Installation Instruction



1. Installation Note

1.1 Environmental Requirement

Operating temperature: TSG-H150E / TSG-150E HMI can work stably in most industrial environments that the temperature between 14°F to131°F (-10~55°C). NEMA rating: This Series HMI frontpanel is NEMA 1 rated.

Please do not use in the following places:

- Places direct in sunlight
- Surrounding temperature and humidity beyond the specifications
- Places of temperature changes sharply and easily cause condensition
- Places that exist corrosive gas and combustible gas
- Places of much dus, dirt, salt and iron
- Places that will be splashed water oil and
- Places that bring direct vibration and shock to host

following places Places that

measures in the

Please take shielding

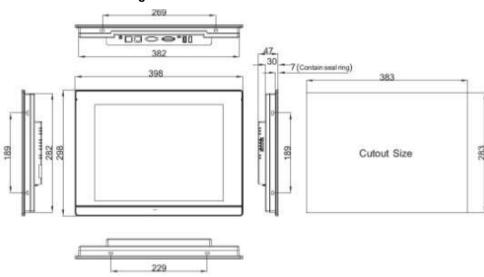
- exist electrostatic or other kinds of noise
- Places of strong electromagnetic
- Places that may be exposed to rays
- Places near the power

1.2 Power Requirement

- Input voltage: DC21 V~ DC28V
- Particularly note that there must be enough distancee between this product And converters or switch mode power supply, Make sure that the input and output cables of that kind equipment are shield cable and the shielding network is connected with the ground.
- Make sure that the DC power and AC power is isolated.
- Do not use common power with perceptual load or input circuit of the controller. Note: An internal fuse will prevent damage for over voltage condition, however it isn't guaranteed the internal electronic components are not damaged.

2. Installation Description

2.1 Dimensional Drawing



2.2 Fixed Screw Installation Instructions

The product is put into the well mounted hole of the machine control box's panel, and the mounting screws are inserted into the fixing holes around the HMI shell from the back of the contro! back's panel. Recommended lock torque: 0.5N.m (to waterproof effect and avoid shell deformation)

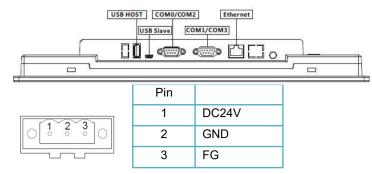


2.3 Power Connection

- Before connecting the power, please make sure all local and national electrical standards are met. For power cables, please select cables with their dielectric strength values and current values in compliance with the safety specifications.
- First find the power terminal at the back of the product and loosen the screw according to counterclockwise, then insert the power cables and tighten the
- Connect positive DC line to the 'DC24V' terminal, the DC ground to the 'GND' terminal and the ground line to the 'FG' terminal.

3. External Interface

3.1 Power Terminal



3.2 SD CARD (TSG-H150E)

Connection	Standard SD card interface
Port Function	The SD Card can be inserted in through this interface for Data
	storage and user configuration uploading/downloading

3.3 Ethernet (E model)

10M/100M adaptive Ethernet RJ45 port.

Connection	With CAT5 UTP cable connected to the Ethernet device				
Port Function	The port can be used for upload/download of HMI configuration, setting of system parameters and online simulations of configurations. It can connect multiple HMI is via the Ethernet to form an HMI network. Furthermore, it can implement communications between HMI and PLC via the Ethernet, as well as communications with a PC via the Ethernet port.				

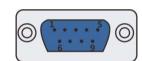
3.4 USB HOST

Connection	Connection Connect with USB interface devices or U disks		
Port Function	This interface can be connected with USB keyboard, mouse and printers, and the U disk can be used for user's configuration uploading/ downloading as well as data storage.		

3.5 USB SLAVE

Connection Standart USB kablosu ile bilgisayara bağlayınız.	
Port Function	Program yükleme / indirme yapılabilir.

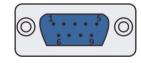
3.6 COM0 & COM2



Pin assignment of the 9-pin male, D-SUB, COM0/COM2. Note: RS232/485/422 communication functions are supported by COM0.COM2 supports RS232 communication function

Pin	Symbol	PLC (COM0) [RS-422]	PLC (COM0) [RS-485]	PLC (COM0) [RS-232]	PC / PLC (COM2) [RS-232]
1	Rx-(B)	RS422 R-	RS485 B		
2	RxD PLC			RS232 RxD	
3	TxD PLC			RS232 TxD	
4	Tx-	RS422 T-			
5	GND	Signal Ground			
6	Rx+(A)	RS422 R+	RS485 A		
7	RxD PC				RS232 RxD
8	TxD PC				RS232 TxD
9	Tx+	RS422 T+			

3.7 COM1 & COM3 (TSG-H150E)



Pin assignment of the 9-pin male, D-SUB, COM1/COM3.Note: RS232/485/422 communication functions are supported by COM1.COM3 supports RS485 communication function.

Pin	Symbol	COM1 [RS-422]	COM1 [RS-485]	COM1 [RS-232]	COM3 [RS-485]
1	Rx-(B)	RS422 R-	RS485 B		
2	RxD PLC			RS232 RxD	
3	TxD PLC			RS232 TxD	
4	Tx-	RS422 T-			
5	GND	Signal Ground			
6	Rx+(A)	RS422 R+	RS485 A		
7	RxD PC				RS485B
8	TxD PC				RS485A
9	Tx+	RS422 T+			

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