Visual Panel 207, Visual Panel 210/210WT Simplified Manual

Full 7" Manual Full 10" Manual

Before you start

Caution	Caution describes situations that may cause minor injury or damage to the device.
Warning	Warning describes situations that could cause major or fatal injury to the user.

Caution

1) Make sure to check if the device's power supply is turned off before wiring. Failure to do so may cause an electric shock or damage to the device.
2) Do not use power beyond the specified voltage range of the device. Doing so may cause fire, electric shock or damage to the device.
3) Frame Ground (FG) wires must be run individually from each unit to the master grounding terminal. DO NOT daisy chain the FG wires between devices.
4) Correctly wire the device, be sure that the rated voltage and terminal layout are within the designated range. If the voltage supplied differs from the rated voltage, or incorrect wiring or grounding is performed, it may cause a fire or unit malfunction, and it will void the warranty.
5) Please do not disassemble or modify the device. It will void the warranty and may cause an electric shock.
6) This version of the device is not rated for flammable environments. Do not use this device around flammable gasses. This may cause an explosion.
7) Do not strike the touch panel with a hard or pointed object or press on the touch panel with too much pressure, since this may damage the touch panel or the display.
8) Do not allow water, liquids, metal, or charged particles to enter the device, as they can cause a malfunction or electrical shock.
9) Make sure to tighten the screw with standard torque (0.5–0.6 Nm). Loose connections may cause short, fire, or malfunction.
10) Be sure to connect all cable connectors to the device securely. A loose connection may cause incorrect input or output.
11) Protection class is guaranteed only when all of the fasteners from the package are correctly installed.

Warning

1) Do not store or use the device where chemicals (such as organic solvents, etc.) and acids can evaporate or where chemicals and acids are present in the air.
2) Be careful that metal debris does not enter the device. They may cause a fire, device damage, or malfunction.
3) The device uses a lithium battery to back up the internal clock. Do not replace this battery by yourself because it may cause an explosion. If a battery needs to be replaced, please contact your local service center.
4) Do not restrict or limit the device's naturally occurring rear face ventilation.
5) The LCD contains a powerful irritant, and if for any reason the panel is damaged and the liquid contacts any part of your body, wash that area with running water for 15 minutes. If any of this liquid enters your eye, flush your eye for 15 minutes with running water and contact a physician.
6) Back up your PC project regularly to prepare for unexpected accidents.

When this unit is disposed of, it should be done according to your country's regulations for similar types of industrial waste.

General Specifications

Item	Visual Panel 207 / Visual Panel 210	Visual Panel 210WT
Rated Voltage	24 VDC	
Operating Temperature	-20℃ - 70℃	-30℃ - 70℃ (Warranty) -20℃ - 70℃ (UL)
Storage Temperature	-25℃ - 75℃	
Operating Humidity	10–90% RH (below 29℃, no dew condensation)	
Storage Humidity	10–90% RH (below 39℃, no dew condensation)	
Altitude (Air Pressure)	800–1114 hPa (below 2000 m/6,500 ft or less)	
Dust Exposure Allowance	≤ 0.1 mg/m³ (No conductive dust allowed)	
Pollution Degree	≤ 2	
Corrosion Immunity	Free from corrosive gas and excessive dust	
Vibration Protection	JIS B 3502, IEC/EN 61131-2 compliant 5–9 Hz Single amplitude: 3.5 mm 9–150 Hz Fixed acceleration: 9.8 m/s² X,Y,Z directions for 10 cycle (approx. 100 min)	
Concussion Protection	JIS B 3502, IEC/EN 61131-2 compliant 147 m/s2, X,Y,Z directions for ±3 times (Total 18 times)	
Noise Protection	Impulse, EFT/Burst, Surge, ±0.5 kV	
Electrostatic Discharge	Contact discharge 4 kV, Air discharge 8 kV (IEC 61000-4-2)	
Protection Class	IP68 (Front), NEMA Type 4X, 12 (Front)	

Interface (Ethernet)

This interface complies with the IEEE802.3 standard for Ethernet (10/100/1000Base-T).
Please use crossover pin-out in case the HMI and the target communication device need to be connected directly.

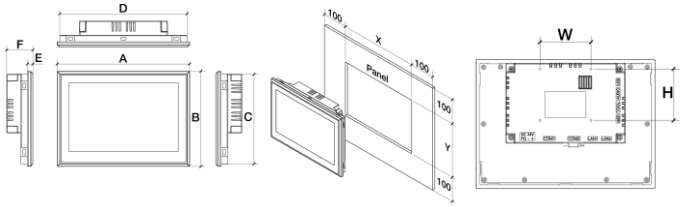
RJ45 Connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
	TP0+	TP0-	TP1+	TP2+	TP2-	TP1-	TP3+	TP3-

Interface (Serial)

COM1: RS-422/485 / COM2: RS-232C

	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
COM1	RDB	RDA	GND	SDB	SDA				
	Receive Data B	Receive Data A	Ground	Send Data B	Send Data A				
COM2		RD	TD		SG		RTS	CTS	
		Receive Data	Transmit Data		Signal Ground		Request To Send	Clear to Send	

Part Names and Dimensions (mm)



Please install the HMI from the front of the panel. Panel's thickness should be from 1.6 mm to 3 mm.

	Visual Panel 207	Visual Panel 201/210WT
A	185	262.3
B	127	187.9
C	117.4	177.9
D	175.4	252.2
E	10.9	10.9
F	51.9	51.9

	X	Y
Visual Panel 207	177	119
Visual Panel 201/210WT	254	179

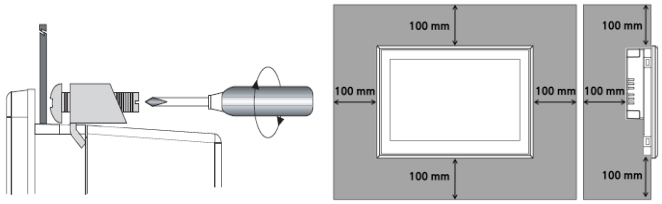
	H	W	Screw
VESA	75	75	M4 Max. 9

unit: mm

*** 7" Model does not support VESA.**

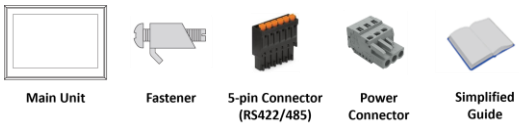
Installation

Attach the installation fasteners from inside the panel. Insert each hook of fastener into the slot and tighten it with a screwdriver. For the performance and safe use of the equipment, please keep the distance between the back of the main unit and each of the containers at least 100 mm.



Tightening the screws with too much pressure can damage the case of the device.
The necessary torque is 0.049 N·m. (0.5 kgf·cm)
Depending on the thickness of the installation panel, the number of installation fasteners used may need to be increased to provide the desired level of moisture resistance.

Package Contents

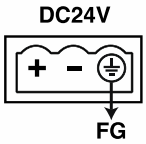


Main Unit Fastener 5-pin Connector (RS422/485) Power Connector Simplified Guide

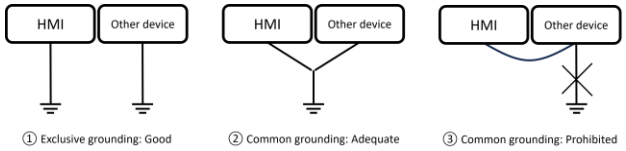
HMI Unit – 1 EA / Fastener – 4 EA (7"), 10EA (10")
Power connector – 1 EA / 5-pin connector (RS-422/485) – 1 EA / Simplified Guide – 1 EA

Grounding Cautions

Inside the HMI unit, the SG (Signal Ground) and FG (Frame Ground = Chassis Ground) terminals are connected to each other.
When connecting an external device to the HMI with the SG terminal, ensure that no short-circuit loop is created when you set up the system. The FG terminal is located on the side of the communication ports.



Connect the FG terminal on the power supply to an exclusive ground. (Refer to the figure below)



Product Warranty

All WAGO products including hardware, software, and firmware (collectively called "Products") carry a **two-year warranty** against defects in materials and workmanship beginning from the date of product shipment from WAGO to its appointed distributor. See the Product Manual for full details.
YOUR USE OF ANY WAGO PRODUCTS AND CONTENT ACCESSIBLE THROUGH THE PRODUCTS IS ENTIRELY AT YOUR OWN RISK WAGO AND ITS AFFILIATES AND SUPPLIERS DO NOT WARRANT THAT THE PRODUCTS ARE SECURE AND FREE FROM BUGS, VIRUSES, INTERRUPTION, ERRORS, THEFT OR DESTRUCTION.
THE PARTIES FURTHER AGREE THAT THE APPLICABLE LAW AND VENUE FOR ANY DISPUTED ARE THE LAWS OF WISCONSIN. TO THE EXTENT ALLOWED BY APPLICABLE LAW, ANY CLAIMS SHALL BE BROUGHT IN GERMANTOWN, WISCONSIN AND WISCONSIN LAW SHALL APPLY.

Customer service information

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