10.1” Visual Panel 210 HMI

8002-0099/0000-0642

10.1” Visual Panel 210WT HMI

8002-0099/0000-0715

CONTENTS

Essential Safety Precautions 3
General Safety Precautions 6
Package Contents 7
Dimensions 8
Interfaces 9
Installation 13
Wiring 15
Power Supply Cautions 16
Grounding Cautions 17
Specifications 18
Project Download 21
Product Warranty 26
WAGO 30

- For your safety and the safe operation of this HMI product, please read this manual before using the product. This manual is subject to change without notice. Please refer to the WAGO website for the latest version of this manual.
- Please review the product specifications in this manual to determine the suitability of this product for its intended use.
- For your safety, only qualified persons should perform electrical and wiring attachments to this product.
- For your safety, only qualified persons should perform programming and downloading of projects and programs to this product.

Essential Safety Precautions

⚠ Warning

Precautions for design

- Do not implement a trigger in the software for emergency stop of hazardous operation. If the Visual Panel 210/210WT HMI is damaged while output signal remains ON or OFF, fatal accident may be caused. Design an emergency stop switch outside of the product so it can be manually stopped.

- Do not use the Visual Panel 210/210WT HMI for the purpose of generating an alarm for injury to operators, breakdown of devices, or production halt.

- Design the system so that it can be hand-operated in case the product malfunctions.

- Do not use the Visual Panel 210/210WT HMI as a control unit on applications requiring extreme stability such as airplane control device, aerospace device, centralized data processing device, nuclear control system, medical life support system, etc.

- In case the Visual Panel 210/210WT HMI is used in transportations such as trains, vehicle, vessels, or warning devices for disasters and crime, various safety devices, and medical devices excluding life support system, you are required to design backup or failure provision system to secure reliability and stability.

- Even if the screen is black, the unit could still be turned on with a dead LCD backlight. When the operator touches a panel in this situation, the action could cause device's malfunction. Do not use this product for controlling safety devices such as emergency stop switches.

Precautions for installation

- Please do not disassemble or modify the Visual Panel 210/210WT HMI. It will void the warranty and may cause an electric shock.

- This version of the Visual Panel 210/210WT HMI is not rated for flammable environments. Do not use this Visual Panel 210/210WT HMI around flammable gases. It may cause an explosion.

- The Visual Panel 210/210WT HMI Model is for use on a flat surface of Type 4X Enclosure DEVICE AND BACK OF THE EQUIPMENT IS MEANT TO BE INSTALLED IN AN ENCLOSURE SUITABLE FOR THE ENVIRONMENT SUCH THAT THE EQUIPMENT IS ONLY ACCESSIBLE WITH THE USE OF A TOOL.

Essential Safety Precautions

⚠ Warning

Precautions for wiring

- Make sure to check if the device's power supply is turned off before wiring. Failure to do so may cause electric shock or damage to the device.
- Do not use power beyond the specified voltage range of the HMI. Doing so may cause fire, electric shock or damage to the device.

Maintenance

- The Visual Panel 210/210WT HMI uses a lithium battery to back up the internal clock. Do not replace this battery by yourself because it may cause an explosion. If the battery needs to be replaced, please contact your local service center.

How to manage LCD breakage

- The LCD contains a powerful irritant and if for any reason the panel is damaged and this liquid contacts any part of your body, be sure to 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.

Essential Safety Precautions

⚠ Cautions

Precautions for installation

- Be sure to securely connect all cable connectors to the Visual Panel 210/210WT HMI. A loose connection may cause incorrect input or output.
- Make sure to install the unit vertically.
- For the performance and safe use of the equipment, keep the distance between the back of the main unit and each wall of the container at least 100 mm.

Precautions for wiring

- Field Ground (FG) wires must be run individually from each unit to the master grounding terminal. DO NOT daisy chain the FG wires between devices.
- Correctly wire the Visual Panel 210/210WT HMI, 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.
- Be careful that metal debris do not enter the Visual Panel 210/210WT HMI, they may cause a fire, Visual Panel 210/210WT HMI damage or malfunction.

Precautions for unit disposal

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

General Safety Cautions

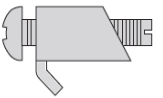
- Do not strike the touch panel with a hard or pointed object or press on the touch panel with too much force, since it may damage the touch panel or the display.
- Do not install the Visual Panel 210/210WT HMI where the ambient temperature exceeds the allowed range. Doing so may cause the Visual Panel 210/210WT HMI to malfunction or shorten product lifespan.
- Do not restrict or limit naturally occurring rear-face ventilation of the Visual Panel 210/210WT HMI, or store or use the Visual Panel 210/210WT HMI in an environment that is too hot, or too cold.
- Do not use the Visual Panel 210/210WT HMI in areas where large, sudden temperature changes can occur. These changes can cause condensation to form inside the unit, possibly causing the unit to malfunction.
- Do not allow water, liquids, metal or charged particles to enter inside the Visual Panel 210/210WT HMI, since they can cause either a Visual Panel 210/210WT HMI malfunction or an electrical shock.
- Do not store or use the Visual Panel 210/210WT HMI in direct sunlight, or in excessively dusty or dirty environments.
- Do not store or use the Visual Panel 210/210WT HMI where strong jolting or excessive vibration can occur.
- Do not store or use the Visual Panel 210/210WT HMI where chemicals (such as organic solvents, etc.) and acids can evaporate, or where chemicals and acids are present in the air.
- Do not use paint thinner or organic solvents to clean the Visual Panel 210/210WT HMI.
- Do not store or operate the LCD display in areas receiving direct sunlight, since the sun's UV rays may cause the LCD display's quality to deteriorate.
- After turning the Visual Panel 210/210WT HMI OFF, be sure to wait a few seconds before turning it ON again. If the Visual Panel 210/210WT HMI started too soon, it may not start up correctly.
- Due to the possibility of unexpected accidents, you must back up the project data of the Visual Panel 210/210WT HMI regularly.

Package Contents

▪ The following item are contained in the package of the Visual Panel 210/210WT HMI. Before using the Visual Panel 210/210WT HMI, please confirm that all items listed here are present.

- Visual Panel 210/210WT HMI Unit – 1 EA

- Fastener – 10 EA



- 5-pin connector (RS-422/485) – 1 EA
  (WAGO 714-105)

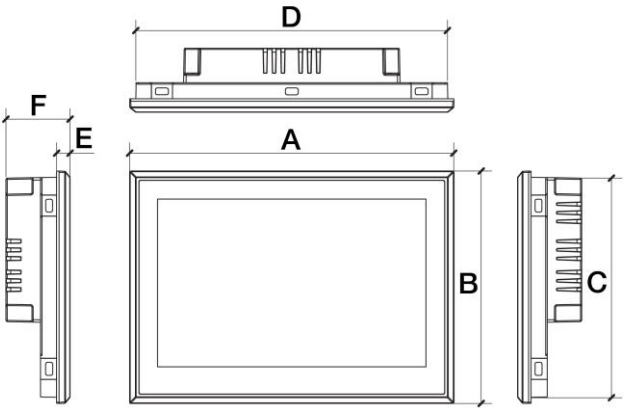
- Power connector – 1 EA
  (WAGO 231-103/026-000)

- Simplified Guide – 1 EA

※ This unit has been carefully packed, with special attention to quality. However, should you find anything damaged or missing, please contact your local WAGO Visual Panel 210/210WT HMI distributor immediately.

Dimensions

Unit: mm



	Visual Panel 201/210WT
A	262.3
B	187.9
C	177.9
D	252.2
E	10.9
F	51.9

Interfaces

Name	Description
mSD	Micro SD Socket
TOOL	USB Device (USB 2.0 Type-C)
AUDIO	Audio Out (3.5mm Stereo)
USB	USB Host (USB 2.0 Type-A)

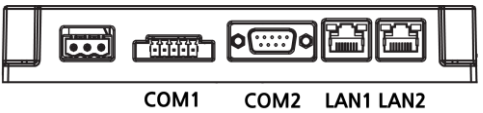
● mSD: Memory Card expansion
This interface is used for Memory expansion of the Visual Panel 210/210WT HMI, using a micro SD card.

● Tool: USB Type C
This interface is used to connect the Visual Panel 210/210WT HMI to the tool (PC), via USB-C cable.

● Audio: RCA jack
This interface is used to connect the Visual Panel 210/210WT to an external speaker.

● USB: USB Type A
This interface is used for Memory expansion of the Visual Panel 210/210WT HMI, using USB storage.

Interfaces



- COM1: RS-422/485

  This interface is used to connect the Visual Panel 210/210WT HMI and target device via an RS-422/485 cable.

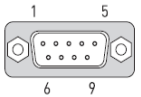
Connector	Pin No.	Name	Description
	1	RDB	Receive Data B
	2	RDA	Receive Data A
	3	GND	Ground
	4	SDB	Send Data B
	5	SDA	Send Data A

- In case of RS-485 cable (2 wire) connection, connect only both SDA and SDB lines.
- The RS-485 of the Visual 210/210WT under auto toggle mode.
- To reduce the risk of damaging the RS-422 circuit, be sure to connect the Pin 3 (GND).

Interfaces

● COM2: RS-232C

This interface is used for the connection between Visual Panel 210/210WT HMI and target device via an RS-232C cable.

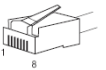
Connector	Pin No.	Name	Description
	1		
	2	RD	Receive Data
	3	TD	Transmit Data
	4		
	5	SG	Signal Ground
	6		
	7	RTS	Request To Send
	8	CTS	Clear To Send
	9		

- Normal communication is not guaranteed when using USB connector as a communication port in ordinary times.
- Serial Port of the HMI is not insulated.
- SG (Signal Ground) and FG (Frame Ground) are connected in the HMI.
- Please be cautious not to short the circuit when connect external device to SG of the HMI.

Interfaces

• Ethernet

This interface complies with IEE802.3 for Ethernet (10/100/1000Base-T).

RJ45 Connector	RJ45 Jack
	

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

Direct Cable: Host ↔ HUB

Cable	No	Color	Color	No	Cable
	1	Orange/W	Orange/W	1	
	2	Orange	Orange	2	
	3	Green/W	Green/W	3	
	4	Blue	Blue	4	
	5	Blue/W	Blue/W	5	
	6	Green	Green	6	
	7	Brown/W	Brown/W	7	
	8	Brown	Brown	8	

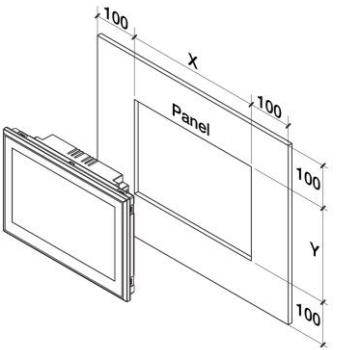
Crossover Cable: Host ↔ Host

Cable	No	Color	Color	No	Cable
	1	Orange/W	Green/W	1	
	2	Orange	Green	2	
	3	Green/W	Orange/W	3	
	4	Blue	Blue	4	
	5	Blue/W	Blue/W	5	
	6	Green	Orange	6	
	7	Brown/W	Brown/W	7	
	8	Brown	Brown	8	

Installation

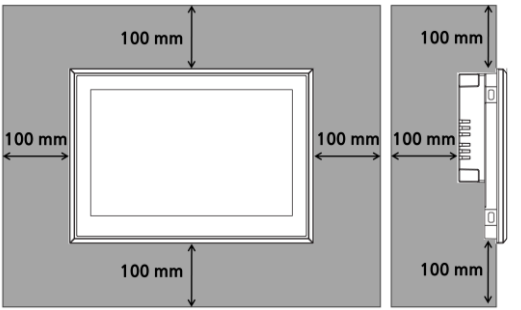
● Create a panel cut and insert the Visual Panel 210/210WT HMI into the panel from the front.

Unit: mm

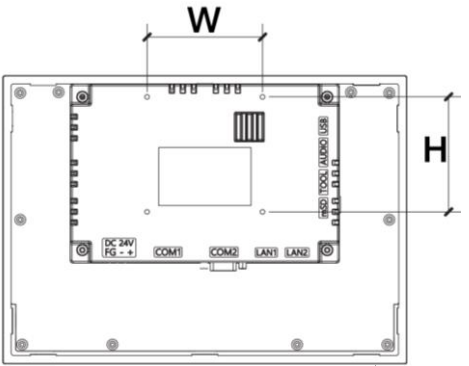


	X	Y
Visual Panel 201/210WT	254	179

● 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.

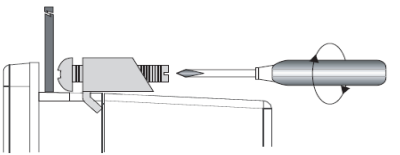


Installation



	H	W	Screw
VESA	75	75	M4 Max. 9

● Attach the Installation Fasteners from inside of the panel. Insert each hook of fasteners into the slot and tighten it with a screwdriver.



- Tightening the screws with too much force can damage the Visual Panel 210/210WT HMI case.
- The necessary torque is 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.

Wiring

⚠ Warning

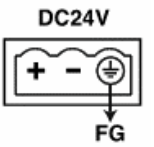
- Make sure to check if the device's power and external power supply are turned off before wiring, via a breaker or similar unit. Failure to do so may cause electric shock or damage to the device.
- Check the rated voltage of the product.
- In case of terminal block connector type, make sure that the power cord is connected properly.
- Be sure to attach a breaker-type switch to its power cord.
- When connecting the power cord, be sure to confirm that the Power Cord is unplugged from the power supply.

- To avoid a short caused by loose terminals, be sure to use terminals with an insulating sleeve.
- When the FG terminal is connected, be sure the wire is grounded. Not grounding the Visual Panel 210/210WT HMI unit will result in excess noise and vibration.

Power Supply Caution

Please pay special attention to the following instructions when connecting the power cord terminals to the Visual Panel 210/210WT HMI unit.

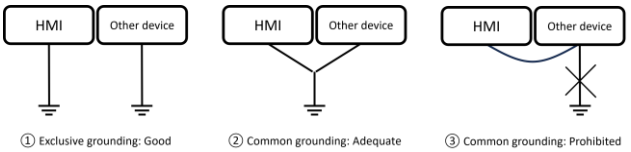
- If the power supply voltage exceeds the specified range of the Visual Panel 210/210WT HMI, connect a voltage transformer.
- Between the line and the ground, be sure to use a low-noise power supply. If there is still excessive noise, connect a noise-reducing transformer.
- The power supply cord should not be bundled with or kept close to main circuit lines (high voltage, high current) or input/output signal lines.
- Connect a surge absorber to handle power surges.
- To reduce noise, make the power cord as short as possible.
- When inputting power to the product, be sure to check the polarity (+, -) marked on the product before connecting. Incorrect polarity may cause product failure or fire. (Not covered under warranty)



- Check that the Spring Clamp Connector terminal wires are connected correctly.
- When the FG terminal is connected, be sure the wire is grounded. Not grounding the Visual Panel 210/210WT HMI unit will result in excess noise and vibration.
- Wire Range: 12 - 28 AWG, Wire Type: Cu; Solid or Fine-stranded

Grounding Caution

- When grounding to the rear face FG terminal of the Visual Panel 210/210WT HMI, (on the Power Input Terminal Block), be sure to create an exclusive ground. (Refer to the figure).
- Inside the Visual Panel 210/210WT HMI unit, the SG (Signal Ground) and FG (Frame Ground) terminals are connected to each other.
- When connecting an external device to the Visual Panel 210/210WT HMI with the SG terminal, ensure that no short-circuit loop is created when you set up the system.
- FG terminal is in the input power side. Connect the grounding cable to the ⏚.



① Exclusive grounding: Good ② Common grounding: Adequate ③ Common grounding: Prohibited

● If the grounding causes operational errors, please detach the FG terminal.

Specifications

Model		**10.1" Visual Panel 210 HMI** [8002-0099/0000-0642]	**10.1" Visual Panel 210WT HMI** [8002-0099/0000-0715]
Enclosure		Front: Aluminum; Rear: Aluminum	
Display		10.1 inch Wide TFT Color	
Colors		16.7M	
Resolution		1280 x 800 WXGA (16:10)	
Effective Display Area		216.96 (H) x 135.60 (V) mm	
PPI		149	
Backlight Type		LED	
Luminance		500 cd/m²	1,200 cd/m²
Contrast Ratio		800:1	
Backlight Life		50,000 hours	
Touch Panel		5 Wire Resistive	
Touch Panel Accuracy		Active Area Length (X) ±2%, Width (Y) ±2%	
Display Orientation		Landscape (Standard, 180°), Portrait (90°, 270°)	
Memory		2 GB LPDDR4	
Storage		8 GB eMMC	
SD Card		1 microSD Card slot	
COM1		RS-422/485	
COM2		RS-232C	
Ethernet		10/100/1000 Mbps 2 ports	
USB Host		1 port	
Tool Port		1 USB Device	
Audio		Line-out 1 port	
Rated Voltage		24 VDC (Class 2)	
Inrush Current:		30 A maximum	
Power Consumption		15 W (MAX: 16 W)	20 W (MAX: 21 W)
OS		Embedded Linux	
Project Memory		250 MB	
User Memory		4 GB	
Weight		1.6 Kg	
Real-Time Clock		Built-in	
Electronic buzzer		Built-in	
Dimension(mm)		262.3 x 187.9 x 51.9	
Panel Cut(mm)		254 x 179	
Certificates	**UL**	UL61010-1 / UL61010-2-201 (E231117)	
	CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)	
	FCC	The 47 CFR, Part2, Part15 and Part18 of FCC Requirement	
	KC	Registration of Broadcasting and Communication Equipments	
	Protection Class	IP68 (Front) NEMA Type: 4x, 12 (Front)	

Specifications

Model		10.1" Visual Panel 210 HMI [8002-0099/0000-0642]	10.1" Visual Panel 210WT HMI [8002-0099/0000-0715]
Supported Protocols (Visual Designer)	Client Device (Ethernet)	Allen Bradley EtherNet/IP	
		ODVA EtherNet/IP	
		CIMON PLC (HMI Protocol)	
		Fatek FBs	
		LSIS FEnet (XGI/XGK)	
		Mitsubishi MELSEC Ethernet	
		Modbus TCP Master	
		OPC UA Client	
		Omron FINS	
		Proface GPEthernet	
		Siemens S7	
	Client Device (Serial)	Allen Bradley DF-1	
		CIMON PLC (HMI Protocol)	
		LSIS Cnet (XGI/XGK)	
		Mitsubishi MELSEC Serial	
		Modbus RTU Master	
		Omron HostLink	
		Panasonic FP7	
		Yokogawa FA M3	
		Hallim Loader	
	Server Device (Ethernet)	MQTT JSON Publisher	
		Modbus TCP Server	
		OPC UA Server	
		Ethernet/IP Server	
	Server Device (Serial)	Modbus RTU Server	

Specifications

Item	10.1" Visual Panel 210 HMI [8002-0099/0000-0642]	10.1" Visual Panel 210WT HMI [8002-0099/0000-0715]
Operating Temperature	-20℃ – 70℃	-30℃ – 70℃ (Warranty) -20℃ – 70℃ (UL)
Storage Temperature	-25℃ – 75℃	
Operating Humidity	10–90% RH (below 29℃, not condensed)	
Storage Humidity	10–90% RH (below 39℃, not condensed)	
Altitude (Air Pressure)	800–1114 hPa (2000 m/6,500 ft or less)	
Dust Exposure Allowance	≤ 0.1 mg/m^3	
Pollution Degree	≤ 2	
Corrosion Immunity	No corrosive gas and 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/s^2 X,Y,Z directions for 10 cycles (approx. 100 min)	
Shock Protection	JIS B 3502, IEC/EN 61131-2 compliant 147m/s^2, 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 (IEC 61000-4-2)	
	Air Discharge 8 kV (IEC 61000-4-2)	

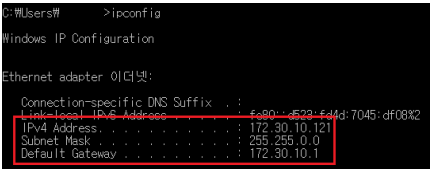
Project Download

- **Check IP address of PC**

  *** This step is not required for project download via USB cable.**

  Go to [Window] – [Run] and enter ‘cmd’ on the input screen.

  Enter ‘ipconfig’ on the command screen to check the PC’s Ethernet setup.

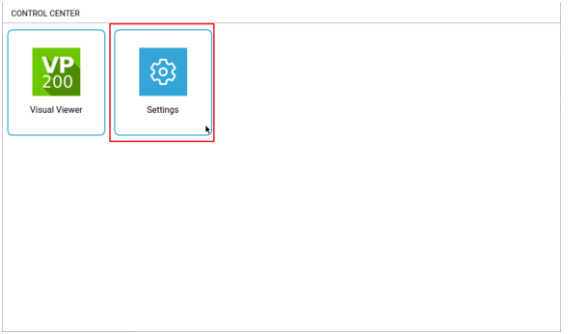


IP setting in Control Center

*** This step is not required for project download via USB cable.**

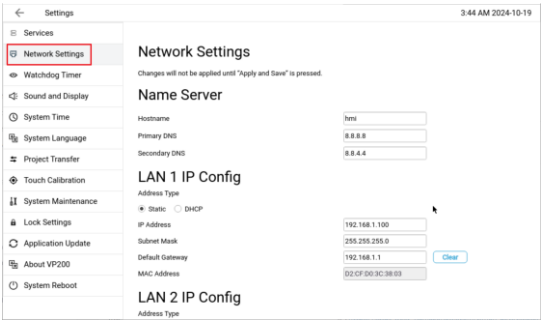
In the Visual Panel 210/210WT Control Center, you can change the IP setting of Visual Panel 210/210WT HMI.

Port 1 is assigned to the LAN1 port, and Port 2 is assigned to the LAN2 port.



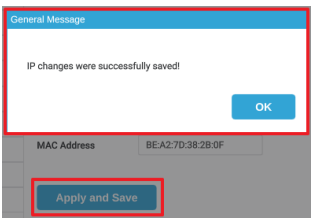
Project Download

Select ‘Network Settings’ button in the Visual Panel 210/210WT HMI Manager.



Enter the IP address, Subnet mask, and gateway in each field.

Tap ‘Apply and Save’ button to apply the network settings.



※ Please note that all the ports must not be configured on the same subnet mask.

※ NOTICE

1) Subnet Mask, Gateway should match those of PC.

2) If the subnet mask is 255.255.0.0, for example in this image, the IP address should look like 192.168.xxx.xxx and should not be duplicated to any other devices.

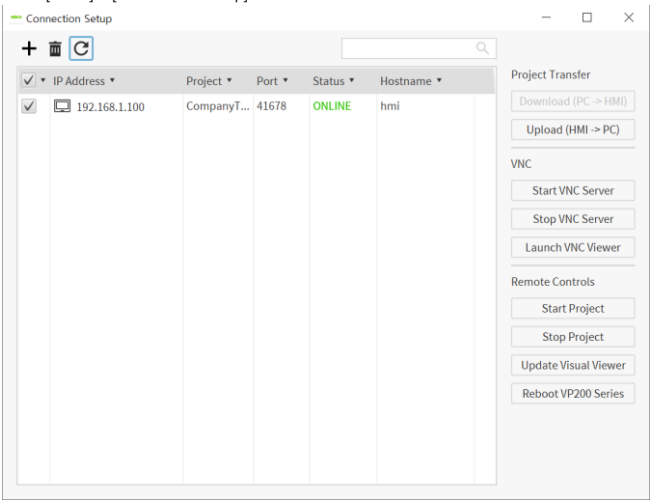
3) xxx must be in range of 0-255.

Project Download

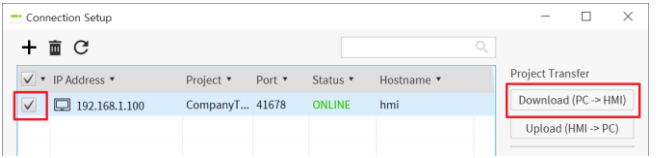
- **Project Download by Ethernet**

Run WAGO Visual Designer and open the project.

Go to [Tools] – [Connection Setup].



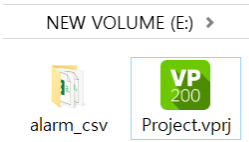
Select the target Visual Panel 210/210WT HMI from the list and press [Download Project].



Project Download

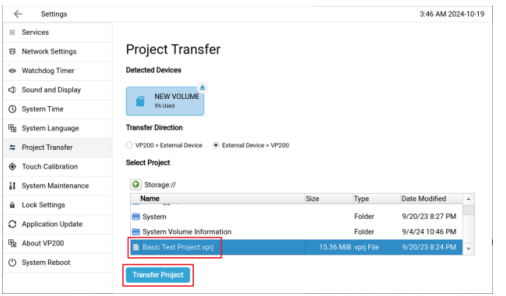
- **Download project to the Removable Disk (Visual Panel 210/210WT HMI → USB)**

  Connect a removable disk to the PC and move the WAGO Visual Designer project file (.vprj) to the removable disk.



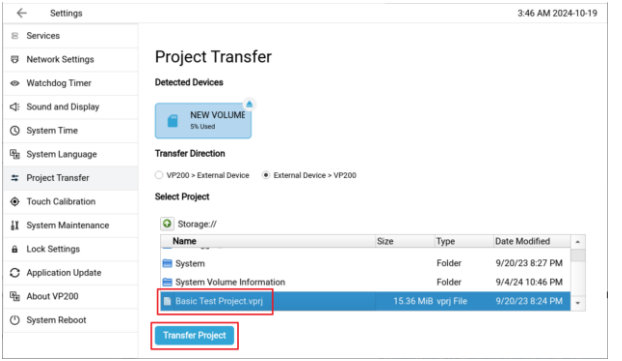
- **Upload the project from removable disk to Visual Panel 210/210WT HMI**

  Connect the removable disk to the Visual Panel 210/210WT HMI. Select [Settings] – [Project Transfer] in the Control Center. Select the device where the project is saved then select [External Device -> V200 HMI].



Project Download

Choose the project file from the file browser displayed below the [Select Project]. Then press [Transfer Project] to copy the project.



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