# 4.3” Visual Panel 204 HMI

8002-0099/0000-0640

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- 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 (www.WAGO.com/US).
- 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 Visual Panel 204 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 Visual Panel 204 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 Visual Panel 204 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 Visual Panel 204 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 204 HMI. It will void the warranty and may cause an electric shock.

- This version of the Visual Panel 204 HMI is not rated for flammable environments. Do not use this Visual Panel 204 HMI around flammable gases. It may cause an explosion.

- The Visual Panel 204 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 PC. Doing so may cause fire, electric shock or damage to the device.

## Maintenance

- The Visual Panel 204 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.

## Maintenance

- 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 204 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 204 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 does not enter the Visual Panel 204 HMI, they may cause a fire, damage to the Visual Panel 204 HMI or malfunction of the Visual Panel 204 HMI.

## Precautions for unit disposal

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

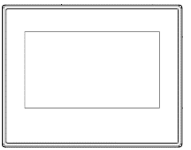
# General Safety Cautions

- 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 204 HMI where the operating temperature exceeds the allowed range. Doing so may cause the Visual Panel 204 HMI to malfunction or shorten product lifespan.
- Do not restrict or limit naturally occurring rear-face ventilation of the Visual Panel 204 HMI, or storing or using the Visual Panel 204 HMI in an environment that is too hot.
- Do not use the Visual Panel 204 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 204 HMI, since they can cause either a Visual Panel 204 HMI malfunction or an electrical shock.
- Do not store or use the Visual Panel 204 HMI in direct sunlight, or in excessively dusty or dirty environments.
- Do not store or use the Visual Panel 204 HMI where strong jolting or excessive vibration can occur.
- Do not store or use the Visual Panel 204 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 204 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 204 HMI OFF, be sure to wait a few seconds before turning it ON again. If the Visual Panel 204 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 204 HMI regularly.

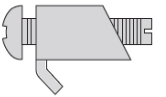
# Package Contents

▪ The following item are contained in the package of the Visual Panel 204 HMI. Before using the Visual Panel 204 HMI, please confirm that all items listed here are present.

• Visual Panel 204 HMI Unit – 1 EA



• Fastener – 4 EA



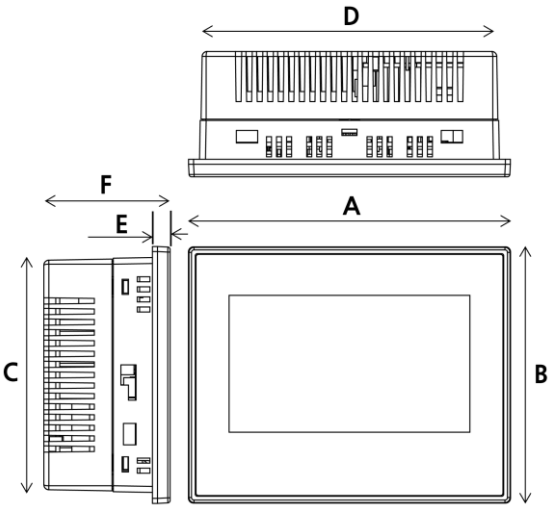
• Power connector – 1 EA
(WAGO 231-103/026-000)

• 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 204 HMI distributor immediately.

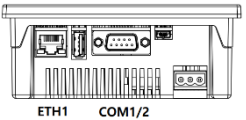
# Dimensions

Unit: mm




| | Visual Panel 204 |
|---|---|
| A | 128 |
| B | 102 |
| C | 93 |
| D | 119 |
| E | 7 |
| F | 50 |

# Interfaces



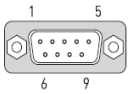

● Tool: USB Type mini-B

This interface is used to connect the Visual Panel 204 HMI to the tool (PC), via USB cable.

● COM1: RS-422/485 / COM2: RS-232C

This interface is used to connect the Visual Panel 204 HMI to the host (PLC), via RS-232C or RS-422/485 cable.

COM1 and COM2 share pins of 9-Pin DSUB connector.

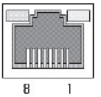
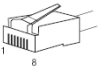
| Connector | Pin No. | Name | Description | Port |
|---|---|---|---|---|
|  | 1 | SDA | Send Data A | COM1 |
| | 2 | RD | Receive Data | COM2 |
| | 3 | TD | Transmit Data | COM2 |
| | 4 | RDA | Receive Data A | COM1 |
| | 5 | SG | Signal Ground | COM1<br>COM2 |
| | 6 | SDB | Send Data B | COM1 |
| | 7 | RTS | Request To Send | COM2 |
| | 8 | CTS | Clear To Send | COM2 |
| | 9 | RDB | Receive Data B | COM1 |

- Normal communication is not guaranteed when using a USB connector as a communication port in ordinary times.
- In case of RS-485 cable (2 wire) connection, connect only both SDA and SDB lines.
- The RS-485 of the Visual Panel 204 HMI runs under auto toggle mode.
- To reduce the risk of damaging the RS-422 circuit, be sure to connect the Pin 5 (SG) terminal.

# 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**

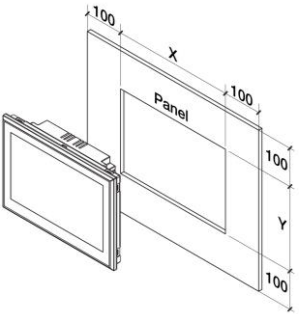
| Cable | No | Color | Color | No | Cable |
|---|---|---|---|---|---|
| | 1 | Orange/W | Orange/W | 1 | |
| | 2 | Orange | Orange | 2 | |
| | 3 | Green/W | Green/W | 3 | |
| | 4 | Blue | Blue | 4 | |
| | 5 | Blue/W | Blue/W | 5 | |
| | 6 | Green | Green | 6 | |
| | 7 | Brown/W | Brown/W | 7 | |
| | 8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

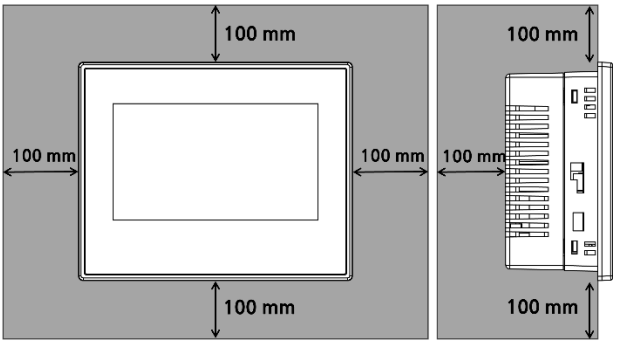
● Create a panel cut and insert the Visual Panel 204 HMI into the panel from the front. Please install the HMI from the front of the panel. Panel's thickness should be from 1.6 mm to 3 mm.




Unit: mm

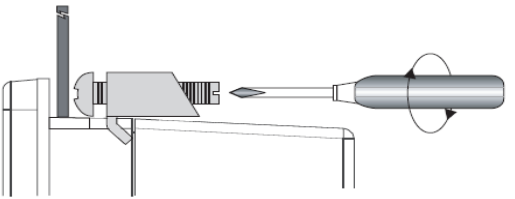
| | X | Y |
|---|---|---|
| Visual Panel 204 | 120 | 94 |

● 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

● 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 case of the HMI.
- 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**

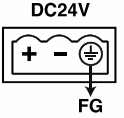
- Make sure to check if the device's power and external power supply are turned off before wiring, via a breaker or similar unit. Failure to do so may cause electric shock or damage to the device.
- Check the rated voltage of the product.
- In case of terminal block connector type, make sure that the 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 204 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 204 HMI unit.

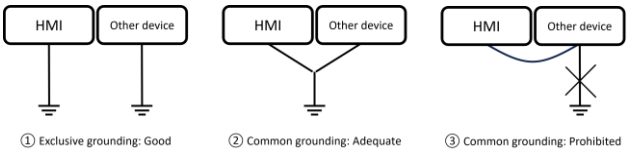
- If the power supply voltage exceeds the GP's specified range, connect a voltage transformer.
- Between the line and the ground, be sure to use a low-noise power supply. If there is still excessive noise, connect a noise-reducing transformer.
- The power supply cord should not be bundled with or kept 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 204 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 204 HMI, (on the Power Input Terminal Block), be sure to create an exclusive ground. (Refer to the figure).
- Inside the Visual Panel 204 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 204 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 | | 4.3" Visual Panel 204 HMI [8002-0099 0000-0640] |
|---|---|---|
| Enclosure | | Front: Plastic; Rear: Plastic |
| Display | | 4.3 inch Wide TFT |
| Colors | | 16.7 million colors |
| Resolution | | WVGA 800 x 480 |
| Effective Display Area | | 95.04 (H) x 53.86 (V) mm |
| PPI | | 217 |
| Backlight Type | | LED |
| Luminance | | 600 cd/m$^2$ |
| Contrast Ratio | | 1200:1 |
| Backlight Life | | 50,000 hours |
| Touch Panel | | 4 Wire Resistive |
| Touch Panel Accuracy | | Active Area Length (X) ±2%, Width (Y) ±2% |
| Display Orientation | | Landscape (Standard, 180°), Portrait (90°, 270°) |
| Memory | | 512 MByte DDR3 |
| Storage | | 8 GByte eMMC |
| SD Card | | None |
| COM1 | | RS-422/485 |
| COM2 | | RS-232 |
| Ethernet | | 10/100/1000 Mbps 1 port |
| USB Host | | 1 port |
| Tool Port | | 1 USB device |
| Audio | | None |
| Rated Voltage | | 24 VDC (Class 2) |
| Inrush Current: | | 30 A maximum |
| Power Consumption | | 9 W (MAX: 10 W) |
| OS | | Embedded Linux |
| Project Memory | | 250 MB |
| User Memory | | 4 GB |
| Weight | | 0.3 kg |
| Real-Time Clock | | Built-in |
| Electronic buzzer | | Built-in |
| Dimension(mm) | | 128 x 102 x 50 mm [5" x 4" x 2"] |
| Panel Cut(mm) | | 120 x 94 mm [4.7" x 3.7"] |
| Certificates | UL | UL61010-1 / UL61010-2-201 (E231117) |
| | CE | Electromagnetic Compatibility Directive 2014/30/EU (EMC) |
| | Protection Class | IP65 (Front)<br>NEMA 4x, 12 (Front) |

# Specifications

| Model | | 4.3" Visual Panel 204 HMI [8002-0099 0000-0640] |
|---|---|---|
| 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 | Specification |
|---|---|
| **Operating Temperature** | 0℃ – 65℃ |
| **Storage Temperature** | -20℃ – 65℃ |
| **Operating Humidity** | 10 – 90% RH (below 29℃, not condensed) |
| **Storage Humidity** | 10 – 90% RH (below 39℃, not condensed) |
| **Altitude (Air Pressure)** | 800 hPa – 1114 hPa (2000 m/6,500 ft or less) |
| **Dust Exposure Allowance** | ≤ 0.1mg/$m^3$ (No conductive dust allowed) |
| **Pollution Degree** | ≤ 2 |
| **Corrosion Immunity** | No corrosive gas or dust |
| **Vibration Protection** | JIS B 3502, IEC/EN 61131-2 compliant<br>5–9 Hz Single amplitude: 3.5 mm<br>9–150 Hz Fixed acceleration: 9.8 m/s2<br>X, Y, Z directions for 10 cycles (approx. 100 min) |
| **Shock Protection** | JIS B 3502, IEC/EN 61131-2 compliant<br>147 m/s2, X, Y, Z directions for ±3 times (Total 18 times) |
| **Noise Protection** | Impulse, EFT/Burst, Surge, ±0.5 kV |
| **Electrostatic Discharge** | 4 kV (Contact Discharge)<br>8 kV (Air Discharge) (IEC 61000-4-2) |

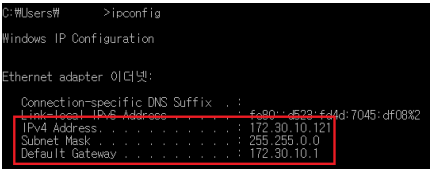
# Project Download

● **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.

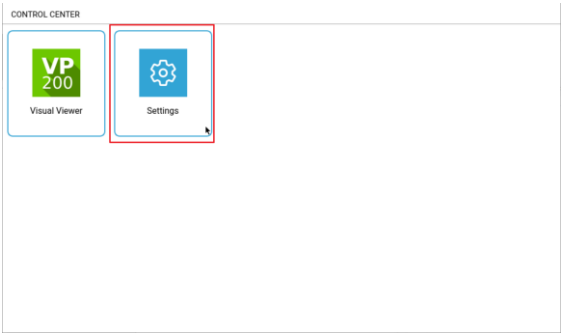
Enter ‘ipconfig’ on the command screen to check the PC’s Ethernet setup.




**IP setting in Control Center**

In the Control Center - Settings, you can change the IP setting of Visual Panel 204 HMI.

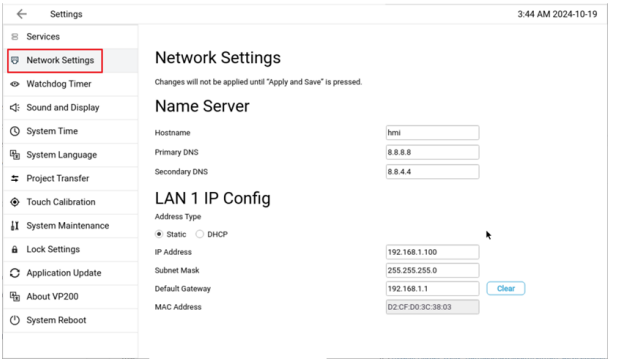
Port 1 (LAN 1) is assigned to the port.




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

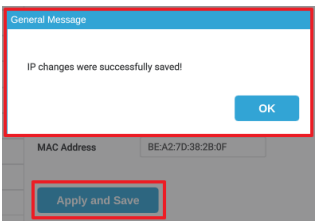
# Project Download

Select ‘Network Settings’ selection on the Visual Panel 204 HMI Control Center.




Enter the IP address, Subnet mask, and gateway for the LAN 1 IP Config in each field.

Tap ‘Apply and Save’ button (bottom of the screen) to apply the network settings.




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

**※ NOTICE**

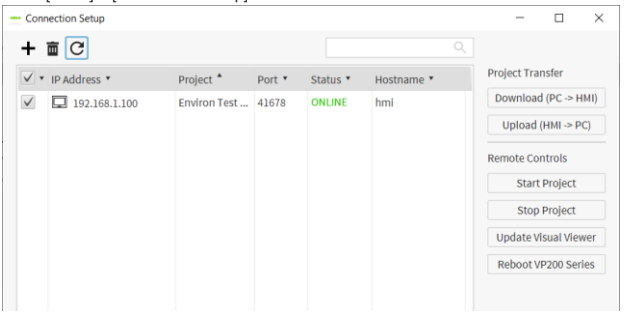
1) Subnet Mask, Gateway should match those of PC.
2) If the subnet mask is 255.255.0.0, for example in this image, the IP address should look like 192.168.xxx.xxx and should not be duplicated to any other devices.
3) xxx must be in range of 0-255.

# Project Download

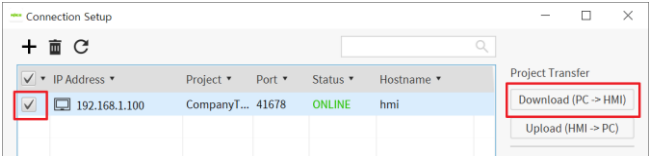
- **Project Download by Ethernet**

Run WAGO Visual Designer (on the associated – connected computer) and open the project.

Go to [Tools] – [Connection Setup].



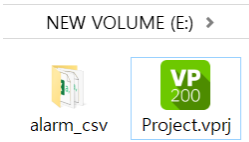

Select the target Visual Panel 204 HMI from the list. If the list does not contain the desired Visual Panel HMI – select the '+' to manually add the IP address of the HMI to the list. While using a USB cable for project download, only one device per connection is available.



# Project Download

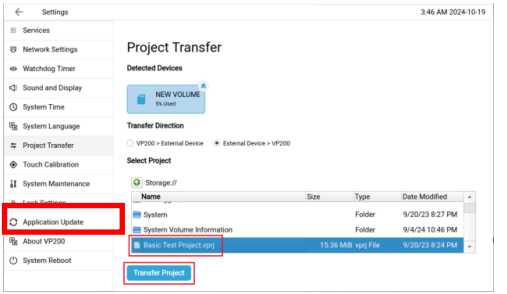
- **Download project to the Removable Disk (Visual Panel 204 HMI → USB)**

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



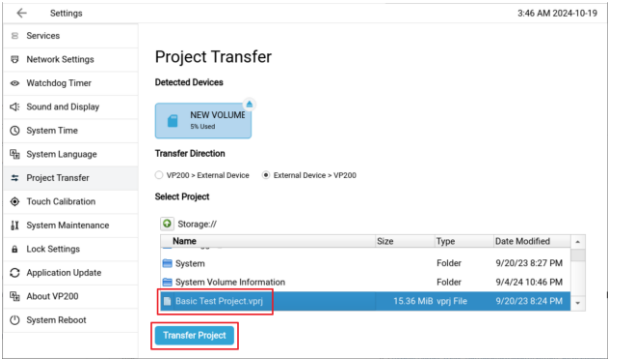

- **Upload the project from removable disk to Visual Panel 204 HMI**

  Connect the removable disk to the Visual Panel 204 HMI. Select [Settings] – [Project Transfer] in the Control Center. Select the device where the project is saved, then select [External Device -> VP200].



# Project Download

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



# Products 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. If a product proves defective in materials and workmanship within one year from the date of purchase, we will replace or repair it. **Products returned under warranty after 30 days may be replaced with refurbished or remanufactured goods at WAGO's discretion.** WAGO makes no representation or warranty, express or implied, that the operation of the Products will be uninterrupted or error free, or that the functions contained therein will meet or satisfy buyer's intended use or requirements.

**Repaired or replaced Products provided as a result of this warranty are warranted for a period of 90 days from the shipment to buyer or the remainder of the original warranty term for that particular product, whichever is longer.** WAGO's standard policy is that all customers are responsible for freight charges to WAGO when returning products under the warranty return policy.

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To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to are and usually change with time. It is your responsibility to determine which codes should be followed, and to verify that the equipment, installation and operation is in compliance with the latest revision of these codes.

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# MEMO

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