FP0H Upgrade Tool Operation Manual

- Applicable models:
    FP0H C32T/P
    FP0H C32ET/EP

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Table of contents

1

How to Operate FP0H Upgrade Tool

1.1 How to Activate Upgrade Tool

■ **How to start**

1. Unzip the file (FP0H_Vxxxx_en.zip) downloaded to a PC into a desired area.
The following four files and one folder will be decompressed.

File name	Content
Fp0h_Vxxxx_VupTool.exe	: Upgrade tool startup module
Fp0h_Vxxxx_Vup.dll	: Upgrade tool FP0H DLL file
Fp0h_V1_en.dll	: Resource DLL file
Fp0h_V1_Manual_en.pdf	: Operation Manual PDF file
Fp0h_EDS	: FP0H EDS File folder

Name	Type
Fp0h_V0101_VupTool.exe	Application
Fp0h_V0101.dll	Application extension
Fp0h_V1_en.dll	Application extension
Fp0h_V1_Manual_en.pdf	PDF File
Fp0h_EDS	File folder

2. Execute the upgrade tool startup module (Fp0h_Vxxxx_VupTool.exe).

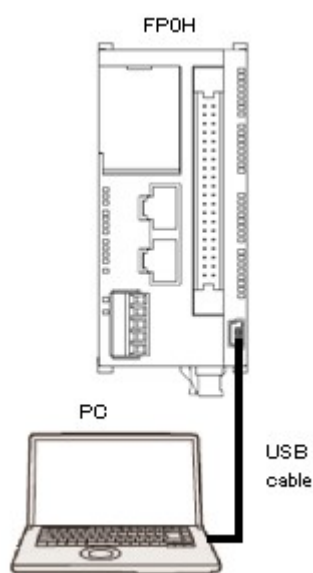1.2 The upgrade tool will be activated.

1.2 Advance Preparation for Upgrade Tool

■ **Advance preparation**

1. **Confirming applicable models: Confirm if the FP0H you use is the applicable model for this tool.**

   - Applicable models: FP0H C32T/P
                           FP0H C32ET/EP

2. **Open the cover and change the switch on the FP0H to PROG. mode.**
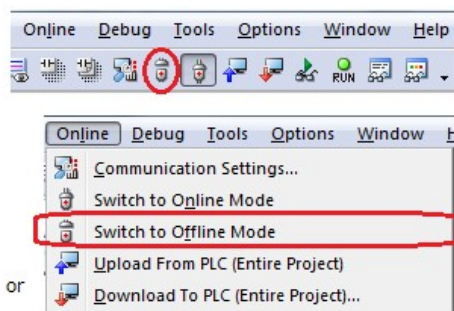

3. **Turn on the power to the FP0H and connect the USB cable to a PC. ***

   * Do not connect more than one FP0H to one PC.

System requirements: OS (WindowsXP SP3, Vista SP2, Windows7 SP1 or later, Windows8, Windows10)
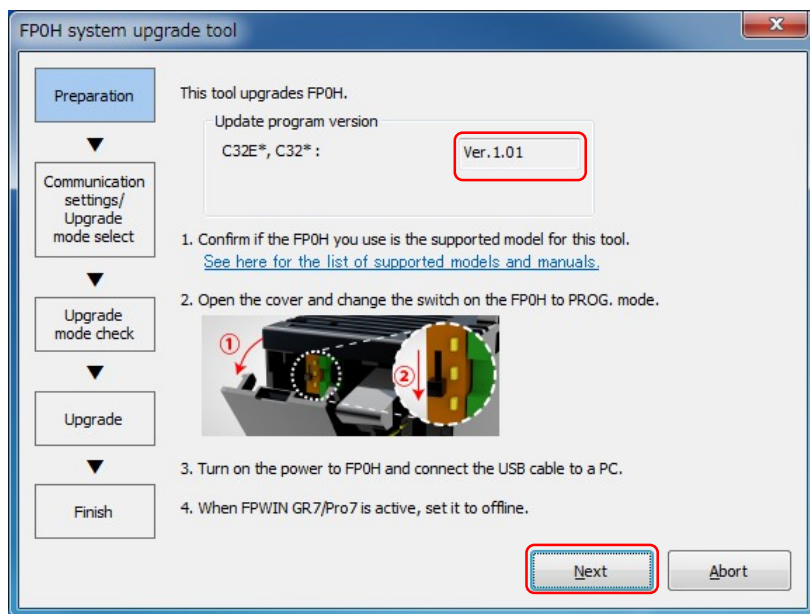
4. **When FPWIN GR7 is active, set it to offline.**

■ **Advance preparation** (Continuation of the above section)

After confirming the advance preparation (1 to 4), click the "Next" button.

Description of functions
 Confirm in advance on this screen.

- Update program version: Indicates the update version made with this application.
   The update version varies according to a provided update tool. (Screen sample: Ver.3.03)
   When the version of the FP0H you use is the same, it is not necessary to update it.
- See here for the list of supported models and manuals.: This manual is displayed.

   "Abort" button: Aborts and exits this application.
   "Next" button: Goes to 1.3 Communication Settings/Upgrade Mode Select

1.3 Communication Settings/Upgrade Mode Select

■ **Communication settings/Upgrade mode select**
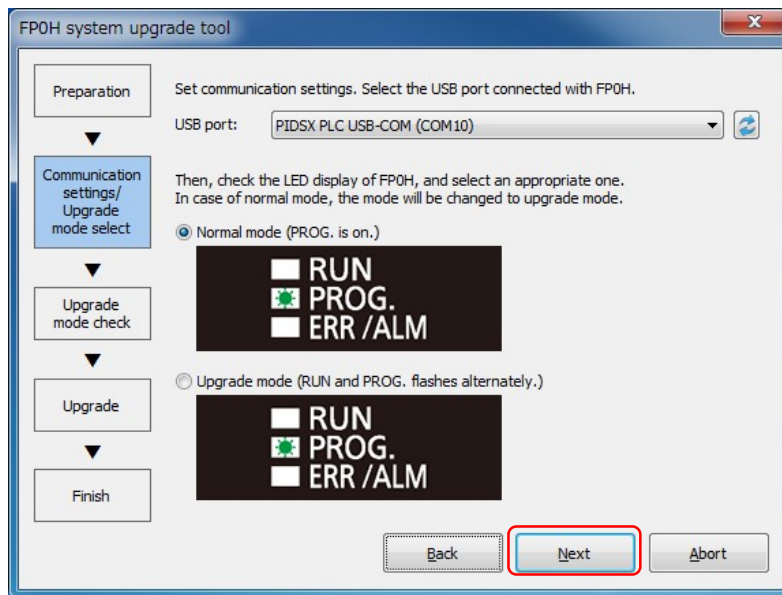
Description of functions

The USB port setting and switching to the upgrade mode is made on this screen.

After selecting a USB port and the mode selection button, click the "Next" button.

- Communication settings

Select the USB port connected with the FP0H. *1, 2.

*1. When the USB port is automatically selected in the initial display, the USB port is recognized correctly, so the selection is not necessary.

(When more than one FP0H is connected, make only one connection available by turning off the power to the rest of the FP0H units or remove the cables.)

*2. When the USB is not selected in the initial display;

As the FP0H is not recognized, reinsert the USB cable after turning on the power, and

press the ⟳ "Update" button. (The USB port will be redisplayed.)

- Upgrade mode select

Compare the LED display on the FP0H to the screen, and select the operation mode.

Normal mode: PROG. is on. → To Upgrade mode select *3

Upgrade mode: RUN and PROG. flashes alternately. → Upgrade

*3. Note: The FP0H may be locked if "Normal mode" is selected in the upgrade mode. (In this case, the FP0H must be rebooted.)

◼ **Communication settings/Upgrade mode select (Continuation of the above section)**

By clicking "Next" when "Normal mode" is selected, the connected PLC model and the version of the update program will be displayed.
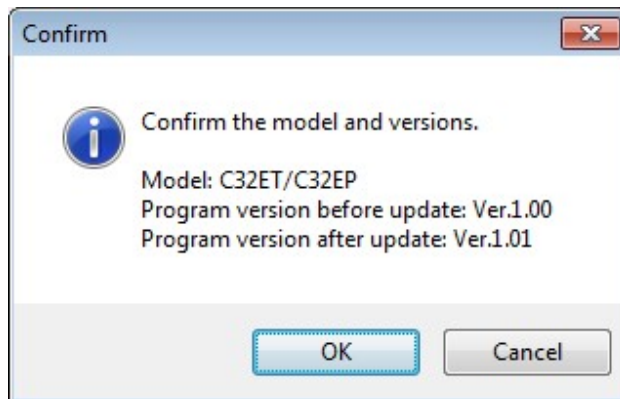
When clicking "Cancel";

Returns to .

When clicking "OK";

Starts switching to the upgrade mode.

■ **Communication settings/Upgrade mode select** (Continuation of the above section)

By clicking "Next" when "Normal mode" is selected, changing the mode to the upgrade mode will start.
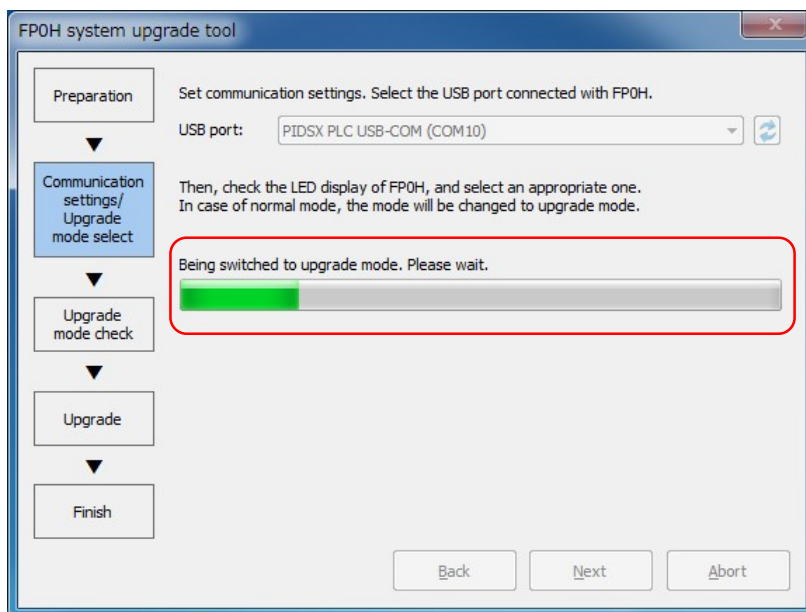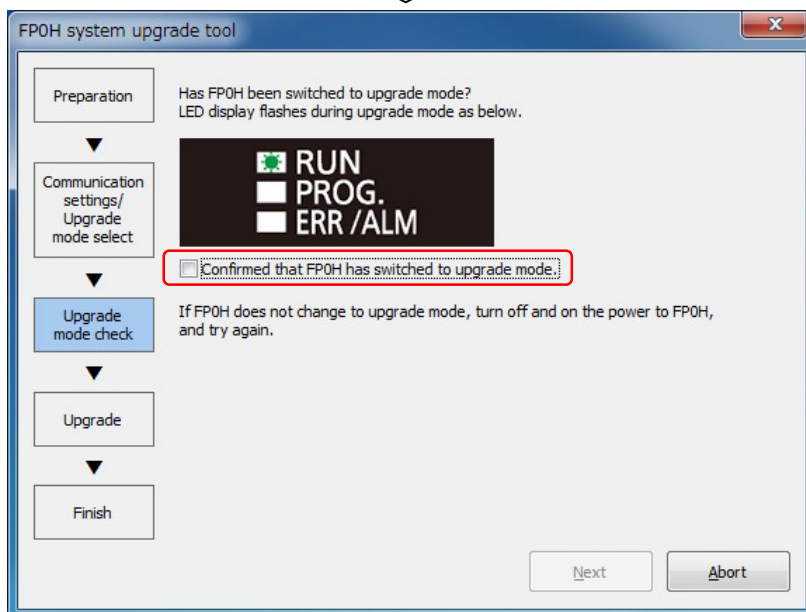
(After a short time, the screen will change to "Upgrade mode confirmation screen".)

```
FP0H system upgrade tool                                                      x

  ┌─────────────┐   Set communication settings. Select the USB port connected with FP0H.
  │ Preparation │
  └─────────────┘   USB port:    PIDSX PLC USB-COM (COM10)              ▼   ⟳
         ▼
  ┌─────────────┐   Then, check the LED display of FP0H, and select an appropriate one.
  │Communication│   In case of normal mode, the mode will be changed to upgrade mode.
  │ settings/   │
  │  Upgrade    │   Being switched to upgrade mode. Please wait.
  │ mode select │
  └─────────────┘   ████████████
         ▼
  ┌─────────────┐
  │   Upgrade   │
  │ mode check  │
  └─────────────┘
         ▼
  ┌─────────────┐
  │   Upgrade   │
  └─────────────┘
         ▼
  ┌─────────────┐
  │   Finish    │
  └─────────────┘
                              Back          Next          Abort
```

⬇ (The screen will change after a short time.)

```
FP0H system upgrade tool                                                      x

  ┌─────────────┐   Has FP0H been switched to upgrade mode?
  │ Preparation │   LED display flashes during upgrade mode as below.
  └─────────────┘
         ▼        ┌──────────────────────────────┐
  ┌─────────────┐ │  ▓ RUN                       │
  │Communication│ │  ▢ PROG.                     │
  │ settings/   │ │  ▢ ERR /ALM                  │
  │  Upgrade    │ └──────────────────────────────┘
  │ mode select │
  └─────────────┘   ☐ Confirmed that FP0H has switched to upgrade mode.
         ▼
  ┌─────────────┐   If FP0H does not change to upgrade mode, turn off and on the power to FP0H,
  │   Upgrade   │   and try again.
  │ mode check  │
  └─────────────┘
         ▼
  ┌─────────────┐
  │   Upgrade   │
  └─────────────┘
         ▼
  ┌─────────────┐
  │   Finish    │
  └─────────────┘
                                            Next          Abort
```

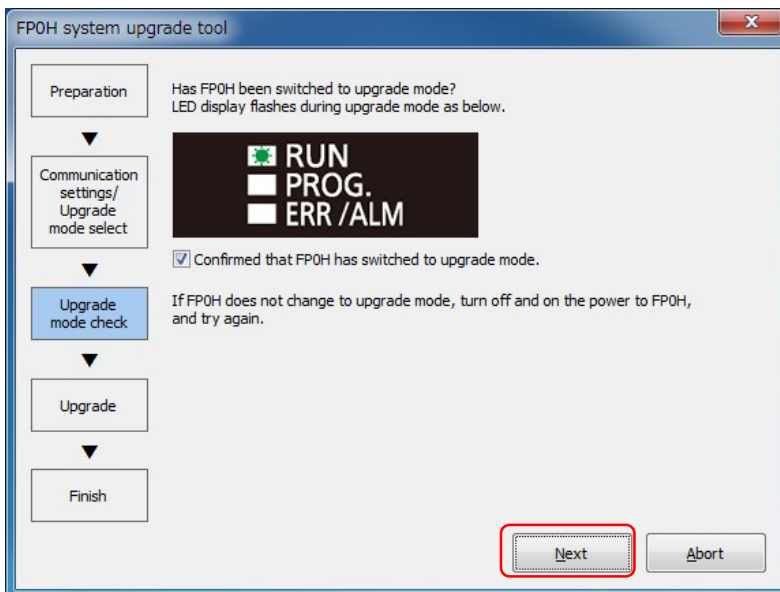Goes to .

1.4 Upgrade Mode Check

■ Upgrade mode check
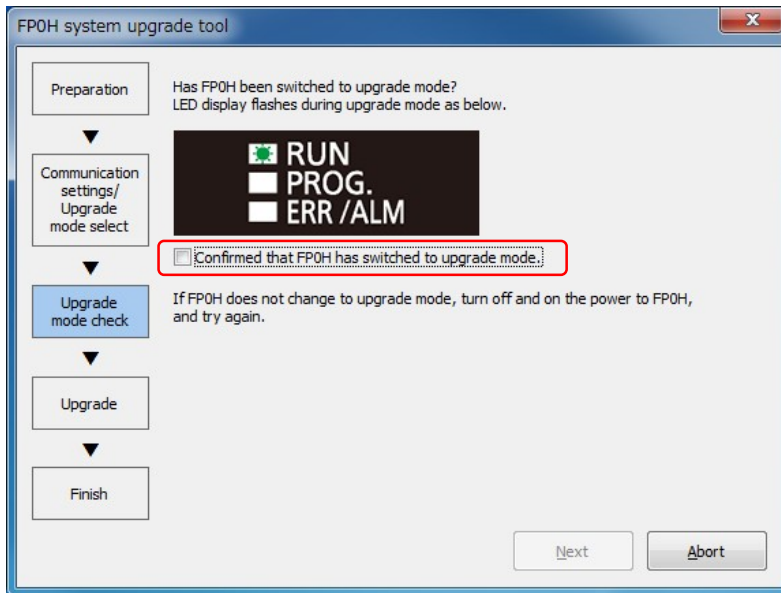
Description of functions

Check if the mode has been changed from normal mode to upgrade mode on this screen.
After checking that the LED display on the FP0H flashes just like the animation on the screen,
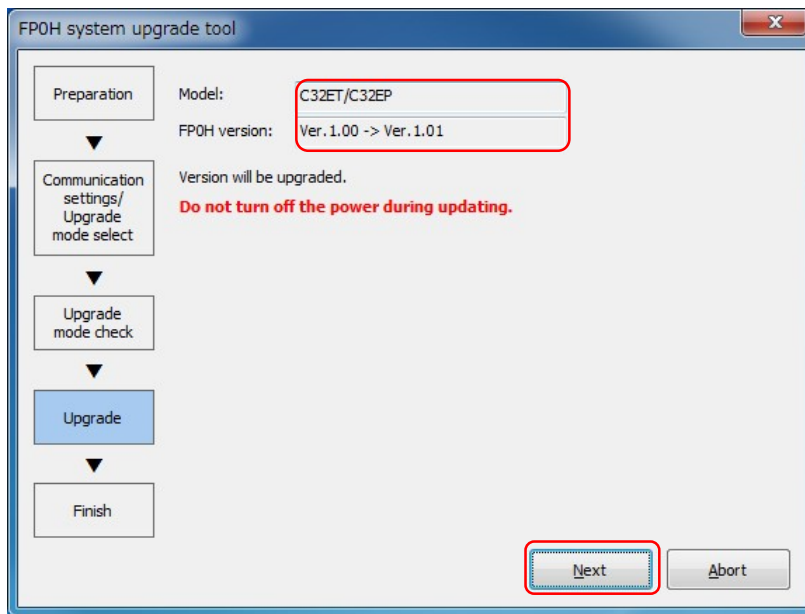check the checkbox and click the "Next" button.

- Upgrade mode select confirmation (After check)

Goes to 1.5 Upgrade.
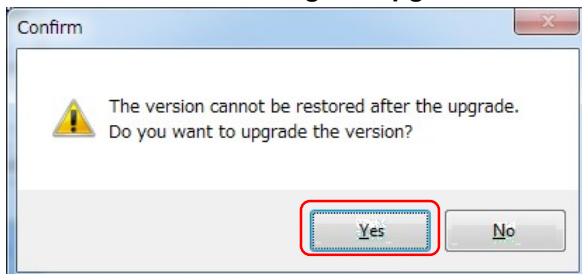
1.5 Upgrade

■ Upgrade

Description of functions

Confirm the current program version and execute the upgrade on this screen.

When selecting the upgrade mode in Communication settings/Upgrade mode select, the current model and program version is not displayed.

(Display example: C32ET/C32EP Ver.1.00 → Ver.1.10)

After the confirmation, click the "Next" button.

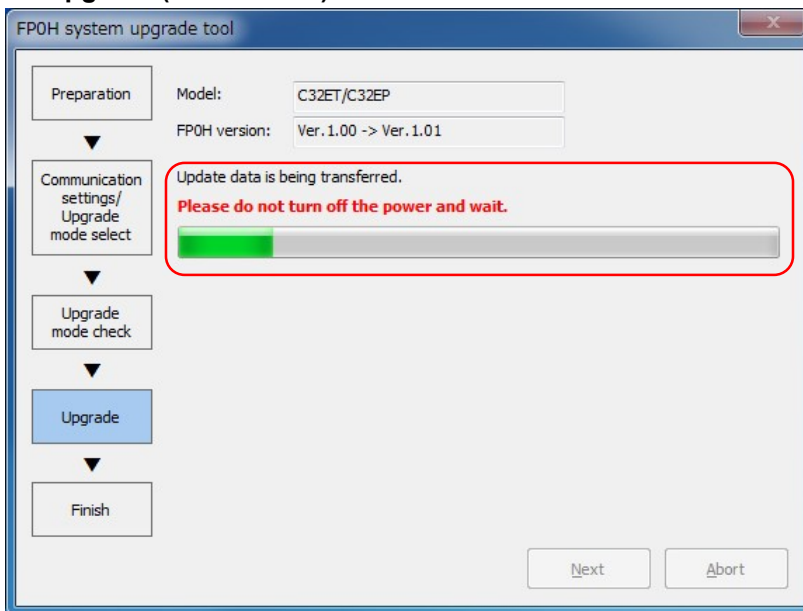### ■ Confirmation of starting the upgrade.

Confirm the message and click the "Yes" button. *

* The subsequent operation cannot be aborted. (Proceed with the operation carefully.)

Goes to Upgrade (Start to End)

■ **Upgrade (Start to End)**

The screen message changes as follows according to the progress.

(1) "Version will be upgraded. Do not turn off the power during updating."

↓ (Waiting for starting the upgrade)

(2) "Update data is being transferred. Please do not turn off the power and wait."

↓ (FP0H is transferring data.)

(3) "Firmware is being rewritten. Please do not turn off the power and wait."

↓ (FP0H is rewriting the firmware.)

(4) "Upgrade verification in progress"
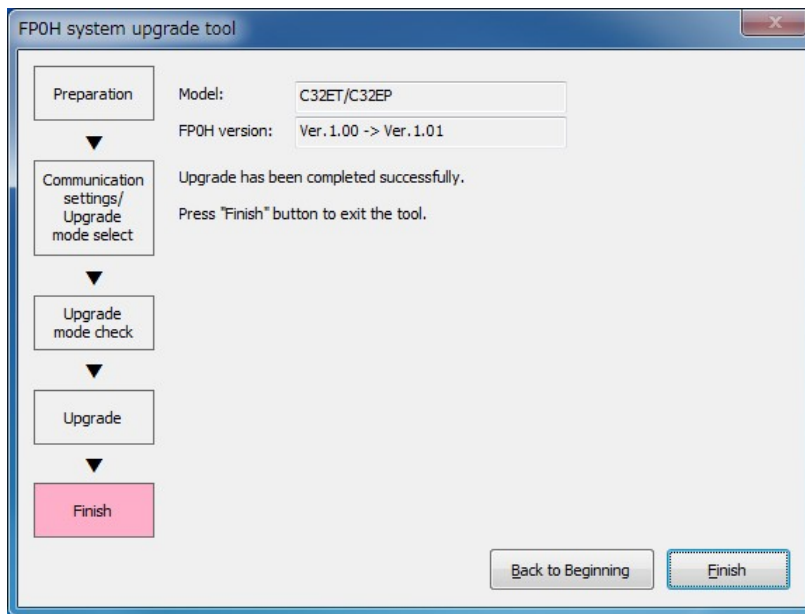
↓ (FP0H is waiting for reboot and confirming the version.)

Completed.
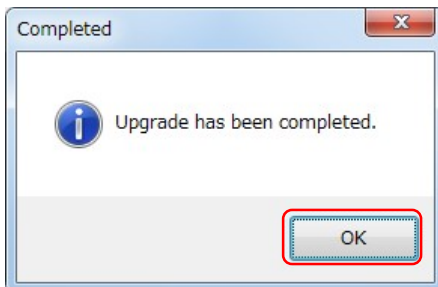
Click the "OK" button to go to 1.6 Finish.

1.6 Finish

■ **Finish**

Description of functions

The upgrade operation has been completed. Click the "Finish" button to finish the operation.

For upgrade another FP0H, click the "Back to Beginning" button.

Goes to 1.2 Advance Preparation.

2

2 List of Error Messages

List of error and warning messages

Error title name	Screen	Cause
1) Connection error	Communication settings/Upgrade mode select	USB connection error
2) Connection error	Communication settings/Upgrade mode select	USB is being used.
3) Version upgrade not supported	Communication settings/Upgrade mode select	Unsupported model
4) Latest version	Communication settings/Upgrade mode select	The latest version already installed.
5) Failed in changing the upgrade mode	Communication settings/Upgrade mode select	Communication failure
6) Operation mode is incorrect	Communication settings/Upgrade mode select	RUN mode
7) Upgrade failed	Upgrade	Writing error
8) FP0H cannot be detected	Upgrade	USB reconnection error
9) FP0H multiple units connection error	Communication settings/Upgrade mode select	Multiple FP0H connections
10) RUN mode select confirmation	Communication settings/Upgrade mode select	RUN mode
11) Upgrade data error	None (At the initial startup)	Data error
12) Upgrade confirmed	Communication settings/Upgrade mode select	Confirmation of update target

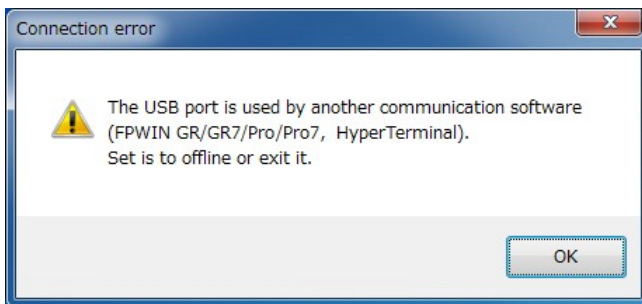# 2.1 Solution for Each Error Message

1) Error message (Connection error)
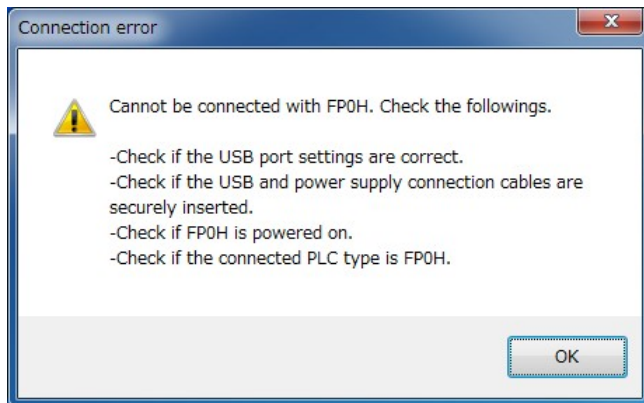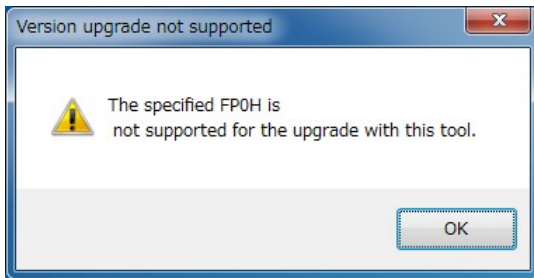

Solution

- Check if the USB port settings are correct. (Select the correct USB port.)

- Check if the USB and power supply connection cables are securely inserted.

- Check if the FP0H is powered on.

- Check if the connected PLC type is FP0H.
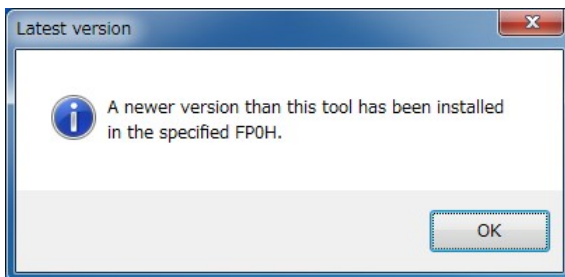
### 2) Error message (Connection error)

Solution

- The USB port is used by another communication software (FPWIN GR/GR7/Pro or HyperTerminal).

- Set it to offline or exit it.

3) Error message (Version upgrade not supported)

Solution

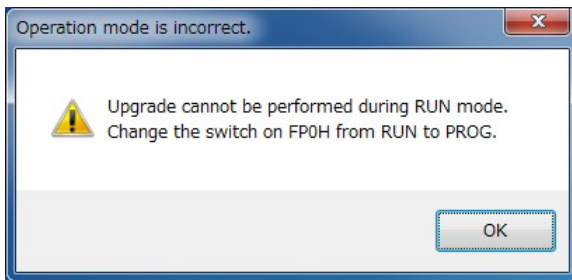- The model used is not applicable for this tool. Use a supported model.

4) Warning message (Latest version)

Solution: None   (The latest version has been already installed.)

5) Error message (Failed in changing the upgrade mode.)
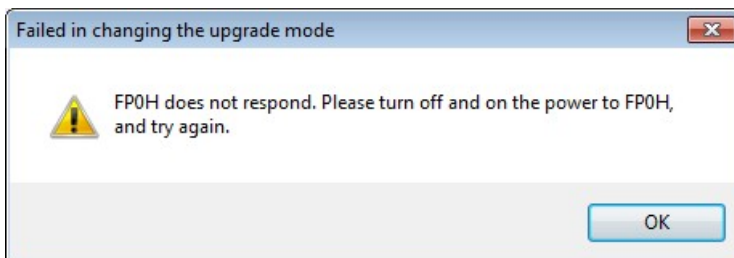
Solution

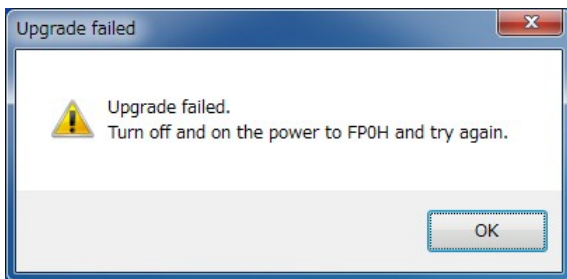- Turn off the power to the FP0H and retry the upgrade from the beginning.

6) Error message (Operation mode is incorrect.)

Solution

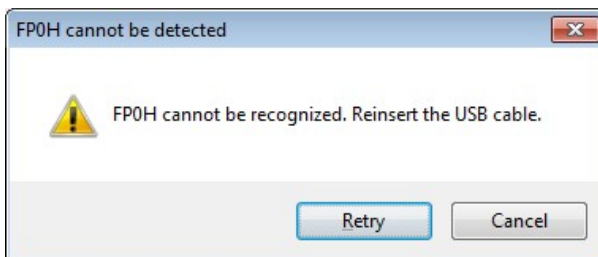- Change the switch on the FP0H to PROG.

7) Error message (Upgrade failed)

Solution

Turn off the power to the FP0H and retry the upgrade from the beginning.

8) FP0H cannot be detected.
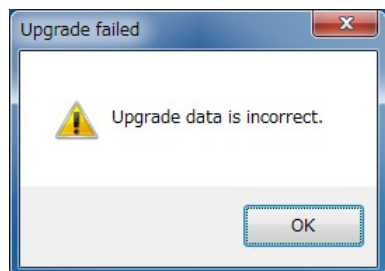

Solution

- Reinsert the USB cable and click the "Retry" button.

9) FP0H multiple units connection error

FP0H multiple units connection error   x

⚠   Multiple FP0H units are connected.
Turn off the power to the FP0H units not to be upgraded, or
remove the USB cables.

OK

Solution

- Turn off the power to the FP0H units not to be upgraded, or remove the USB cables.

10) RUN mode select confirmation

Confirm   ✕

⚠   FP0H will be switched from RUN mode to PROG. mode.
Continue?

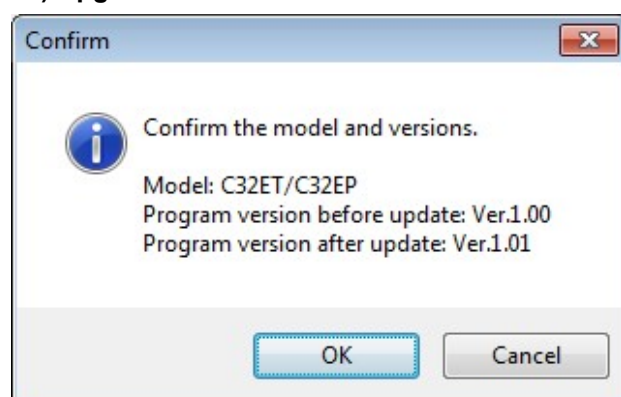Yes   No
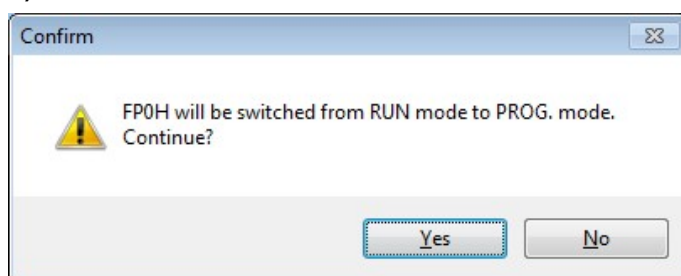
Solution

- Click the "Yes" button. (The mode will be automatically changed to the PROG. mode in the software.)

- When the switch is changed manually, click the "No" button to proceed.

11) Upgrade data error

Upgrade failed   x

⚠   Upgrade data is incorrect.

OK

Solution

Please contact your dealer regarding upgrade data errors.

12) Upgrade confirmed

Solution)

- Confirm the version of the update program of FP0H.

  To start the update, click the "OK" button.

  To cancel the update, click the "Cancel" button.