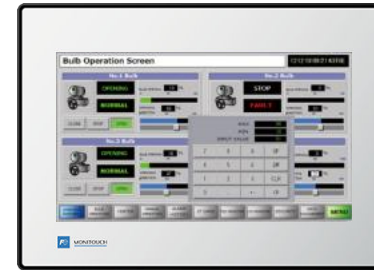
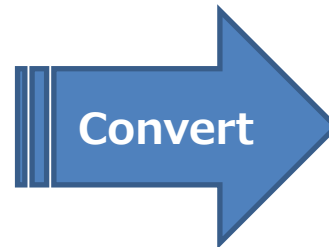


# MONITOUCH TS4000 series Replacement Guide



TS1000 series  
TS1000S series



TS4000 series

- **List of Recommended Replacement Models**
- **Model Description**
- **Hardware Spec Comparison - 7" / 10.2"**
- **Power Supply Terminal**
- **Installation**
- **Dimensions - 7" / 10.2"**
- **Interface- 7" / 10.2"**
- **Configuration Software**
- **Screen Program Conversion**

# List of Recommended Replacement Models

Following is a list of TS4000 replacement models for TS1000/TS1000S series.  
Please check the model of TS1000/TS1000S unit in use and select the recommended model.

Series	Size	Model
TS1000	10.2" wide	TS1100i
		TS1100
TS1000S		TS1100Si
TS1000	7.0" wide	TS1070i
		TS1070
TS1000S		TS1070Si
		TS1070S

TS4000 model
TS4100i
<p>Note:</p> <ul style="list-style-type: none"> <li>The panel cut-out size is not identical. Please use an adapter panel "PAD-TS4100".</li> <li>The resolution will change from WVGA to WSVGA.</li> </ul>
TS4070i



Refer to
<a href="#">Page 3</a>
<a href="#">Page 4</a>

## Option (Waterproof gasket)

Series	Model
TS1000	TS1100-WP
TS1000S	TS1100S-WP
TS1000	TS1070-WP
TS1000S	TS1070S-WP

TS4000 model
TS4100-WP
TS4070-WP

## TS1000 series

TS1□□0□



**Screen size**  
10: 10.2-inch widescreen  
07: 7.0-inch widescreen

**LAN port**  
None: Without LAN port  
i: With LAN port

## TS1000S series

TS1□□0S□

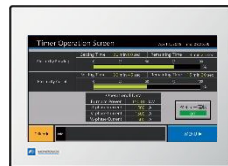


**Screen size**  
10: 10.2-inch widescreen  
07: 7.0-inch widescreen

**LAN port**  
None: Without LAN port  
i: With LAN port

## TS4000 series

TS4□□□□i



**Screen size**  
15: 15.6-inch widescreen  
12: 12.1-inch widescreen  
10: 10.1-inch widescreen  
07: 7.0-inch widescreen

**OPC-UA**  
None: Client  
P: Client and Server

**Functions**  
0: Standard  
1: With extended function

# TS1100(i)/TS1100Si -> TS4100i (Hardware Spec.)

- Panel cut-out differs between TS1100(i)/TS1100Si and TS4100i. Please use an adapter panel “PAD-TS4100” to fill the gap.
- Screen resolution differs between TS1100(i)/TS1100Si and TS4100i. When converting the screen program from TS1100(i)/TS1100Si to TS4100i, use automatic resizing feature of Smart Editor. If the layout is changed, adjust it manually.

Item		TS1100(i)/TS1100Si
Screen size		10.2-inch widescreen
Dimensions W x H x D (mm)	TS1100(i)	283.0 x 222.0 x 42.0
	TS1100Si	266.8 x 206.8 x 38.0
Panel cut-out W x H (mm)		257.0(+0.5/-0) x 199.0(+0.5/-0)
Screen memory (FROM)	TS1100(i)	10.5MB
	TS1100Si	26MB
Backup memory (SRAM)		128KB
Display device		TFT color
Display colors		65,536 colors
Resolution		800 x 480 dots
Touch switch		Analog resistance film
Communication I/F	Serial	D-Sub 9-pin (female) x1:RS-422 / RS-485 D-Sub 9-pin (male) x1:RS-232C, RS-485
	USB	USB-A x1, USB mini-B x1
	Ethernet	LAN x1 provided as standard*3
Storage		USB flash drive (maximum 32GB)

TS4100i	NEW
10.1-inch widescreen	
263.8 x 191.8 x 38.0	
263.8 x 191.8 x 38.0	
254.0(+0.5/-0) x 184.0(+0.5/-0)	
128MB	
230KB *1	
Same as on the left	
16.77 million colors*2	
1024 x 600 dots	
Same as on the left	
Same as on the left	
Same as on the left	
Same as on the left	
USB flash drive (maximum 2TB)	

\*1 SRAM capacity may be insufficient because there is a difference in capacity calculations between the TS1000S and TS4000.

If the used capacity exceeds the limit, a warning dialog will appear during conversion.

\*2 Only for displaying “picture” images, 3D parts and remote desktop window. All other content is displayed using 65,536 colors. \*3 TS1100i/TS1100Si only

# TS1070(i)/TS1070S(i) -> TS4070i (Hardware Spec.)



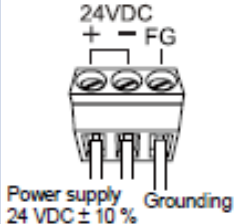
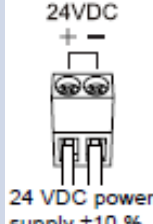
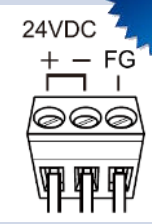
Item		TS1070(i)/TS1070S(i)
Screen size		7.0-inch widescreen
Dimensions W x H x D (mm)	TS1070(i)	215.0 x 155.0 x 42.0
	TS1070S(i)	198.8 x 141.8 x 38.0
Panel cut-out W x H (mm)		189.0(+0.5/-0) x 134.0(+0.5/-0)
Screen memory (FROM)	TS1070(i)	10.5MB
	TS1070S(i)	26MB
Backup memory (SRAM)		128KB
Display device		TFT color
Display color		65,536 colors
Resolution		800 x 480 dots
Touch switch		Analog resistance film
Communication I/F	Serial	D-Sub 9-pin (female) x1:RS-422 / RS-485 D-Sub 9-pin (male) x1:RS-232C, RS-485
	USB	USB-A x1, USB mini-B x1
	Ethernet	LAN x1 provided as standard*3
Storage		USB flash drive (maximum 32GB)

TS4070i
7.0-inch widescreen
<b>198.8 x 141.8 x 38.0</b>
Same as on the left
Same as on the left
128MB
230KB *1
Same as on the left
<b>16.77 million colors</b> *2
Same as on the left
Same as on the left
Same as on the left
Same as on the left
Same as on the left
Same as on the left
USB flash drive ( <b>maximum 2TB</b> )

\*1 SRAM capacity may be insufficient because there is a difference in capacity calculations between the TS1000S and TS4000.

If the used capacity exceeds the limit, a warning dialog will appear during conversion.

\*2 Only for displaying "picture" images, 3D parts and remote desktop window. All other content is displayed using 65,536 colors. \*3 TS1070i/TS1070Si only

TS1000 series	TS1000 Smart series	TS4000 series <span style="float: right; border: 2px solid blue; border-radius: 50%; padding: 5px; color: white; font-weight: bold;">NEW</span>
DC24V (+/- /FG terminal) Screw head: minus (-)	DC24V (+/- terminal only. <b>No FG terminal</b> ) Screw head: plus (+)	DC24V (+/- /FG terminal) Screw head: minus (-)
		

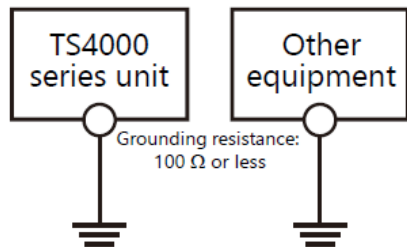
## Notes on the Power Supply with TS4000:

The power supply must be used within the allowable range of voltage fluctuation.

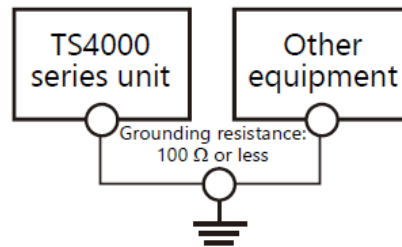
- Use a power supply with low noise between cables and between the ground and cables.
- Do not insert two wires into a single terminal on the terminal block.
- Keep power supply cables away from high-voltage, large-current carrying cables.
- For use in compliance with UL standards, use a Class 2 power supply with a safety extra-low voltage (SELV) circuit, or a power supply

with a SELV circuit and limited energy (LIM) for 24 VDC power models.

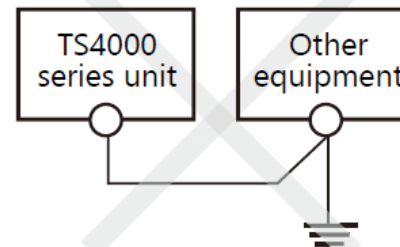
Independent grounding (best)



Shared grounding (good)



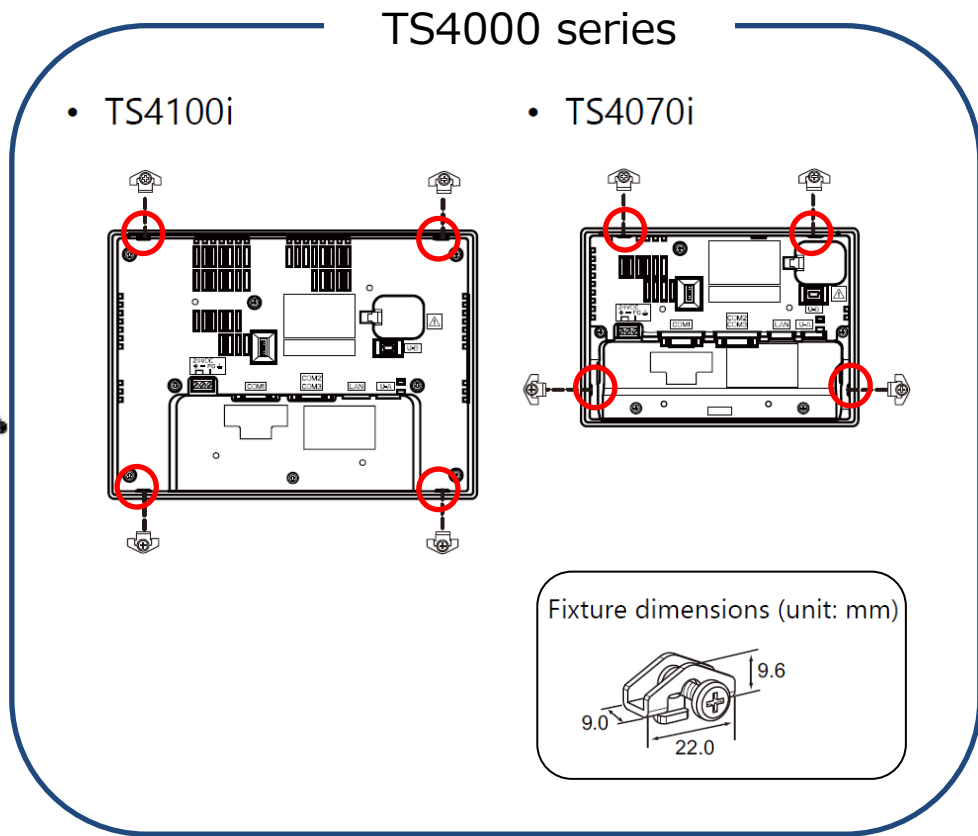
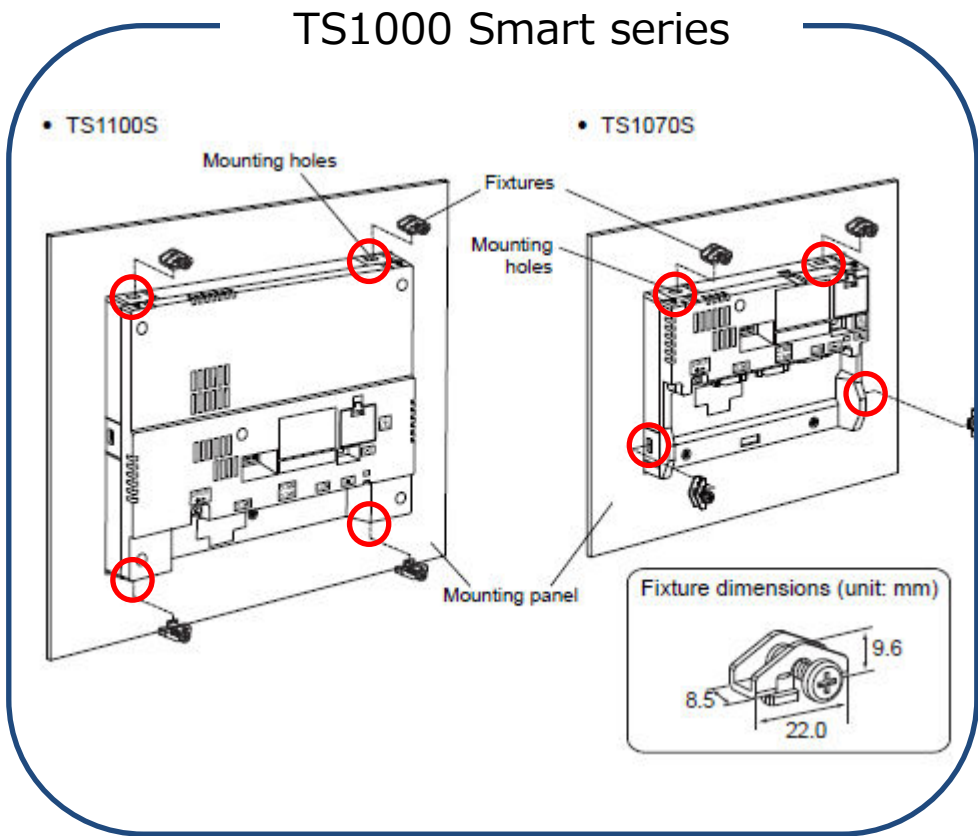
Cross grounding (prohibited)



	TS1000 Smart series	TS4000 series
Mounting brackets	4 fixtures	4 fixtures



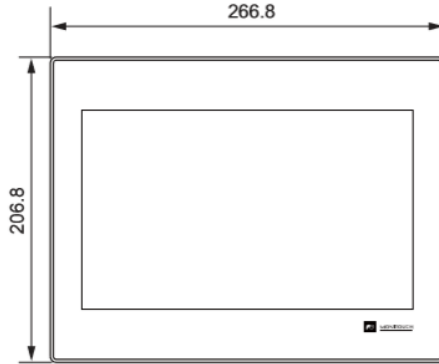
- As shown below, the shape of fixtures and the position of mounting holes are the same.



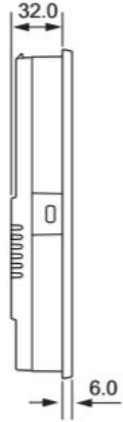
# Dimensions (10.2")

## TS1100Si

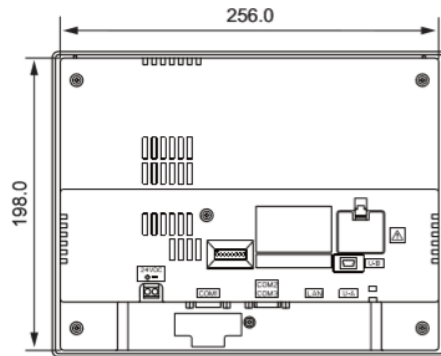
• Front View



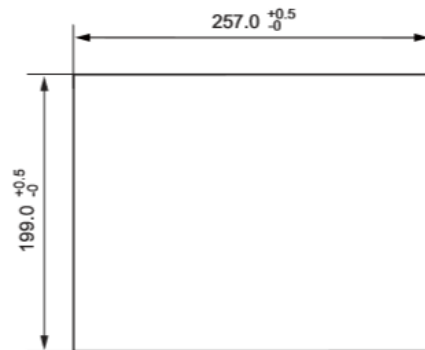
• Side View



• Rear View

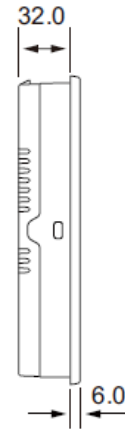


• Panel Cut-out Dimensions

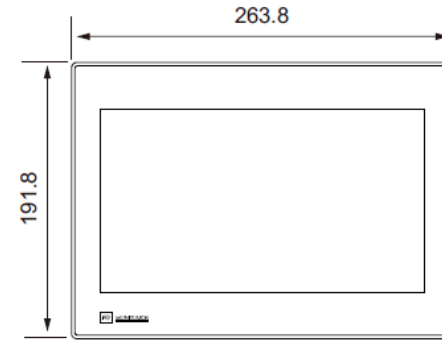


## TS4100i

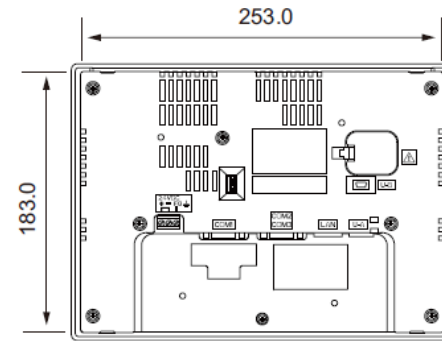
• Side view



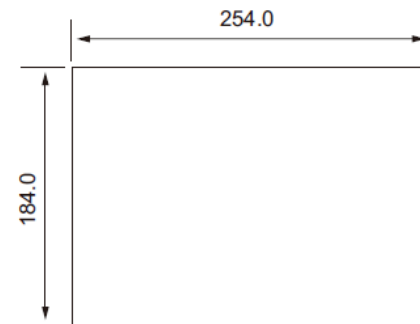
• Front view



• Rear view



• Panel cut-out dimensions



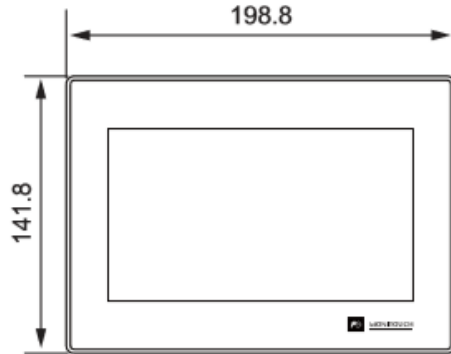
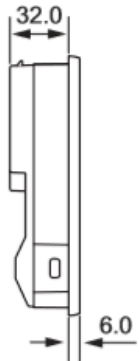
**Not identical**

Use "PAD-TS4100"

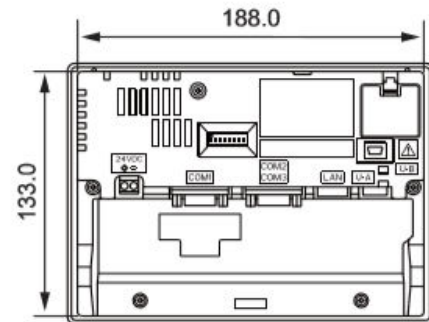
(unit: mm)

## TS1070Si • Front View

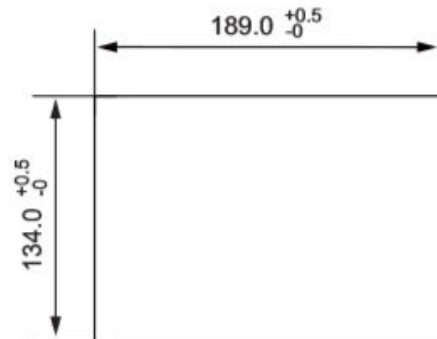
### • Side View



### • Rear View

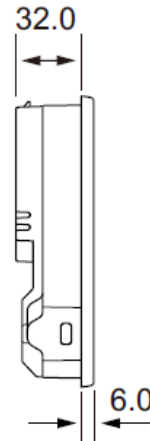


### • Panel Cut-out Dimensions

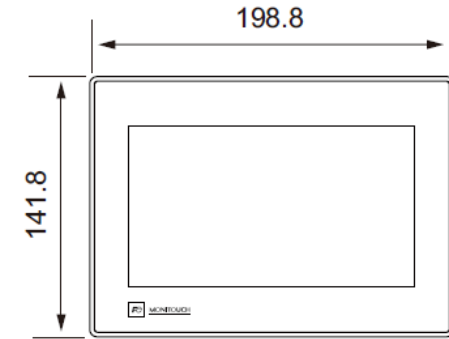


## TS4070i

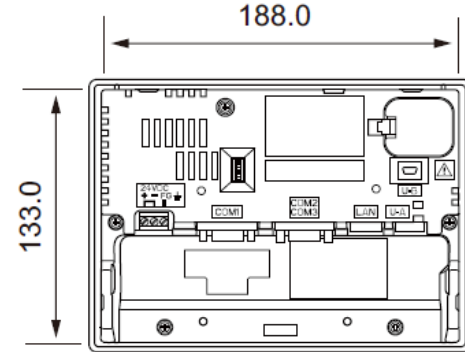
### • Side view



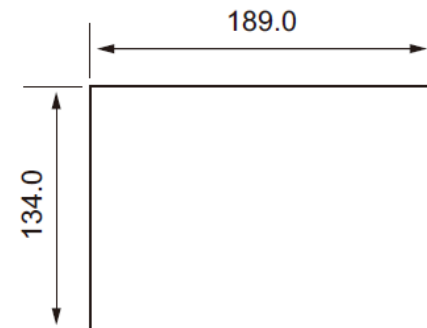
### • Front view



### • Rear view

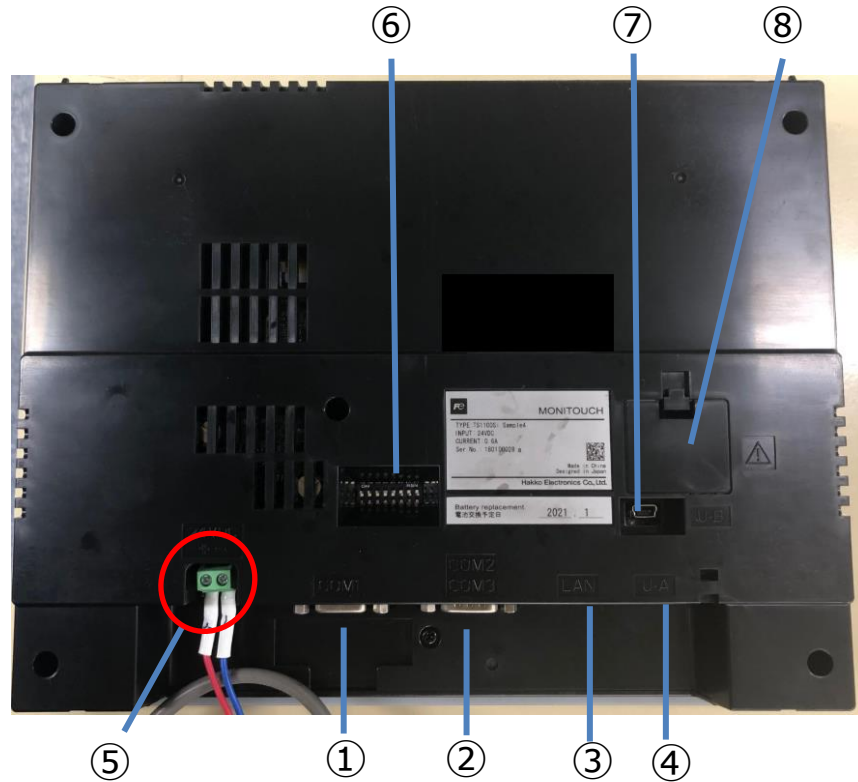


### • Panel cut-out dimensions

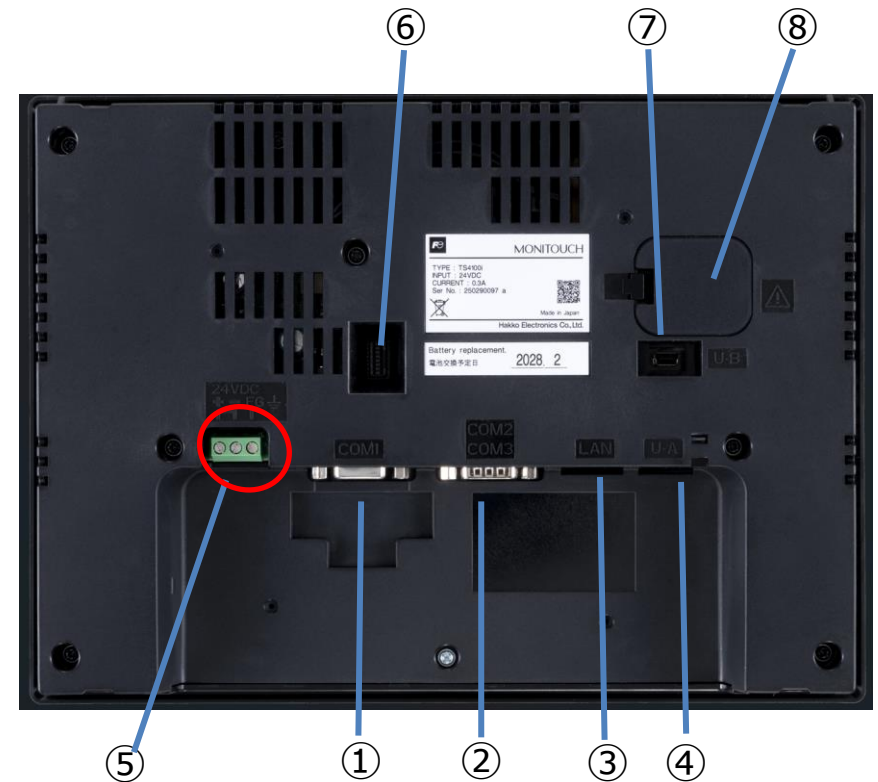


Identical

(unit: mm)



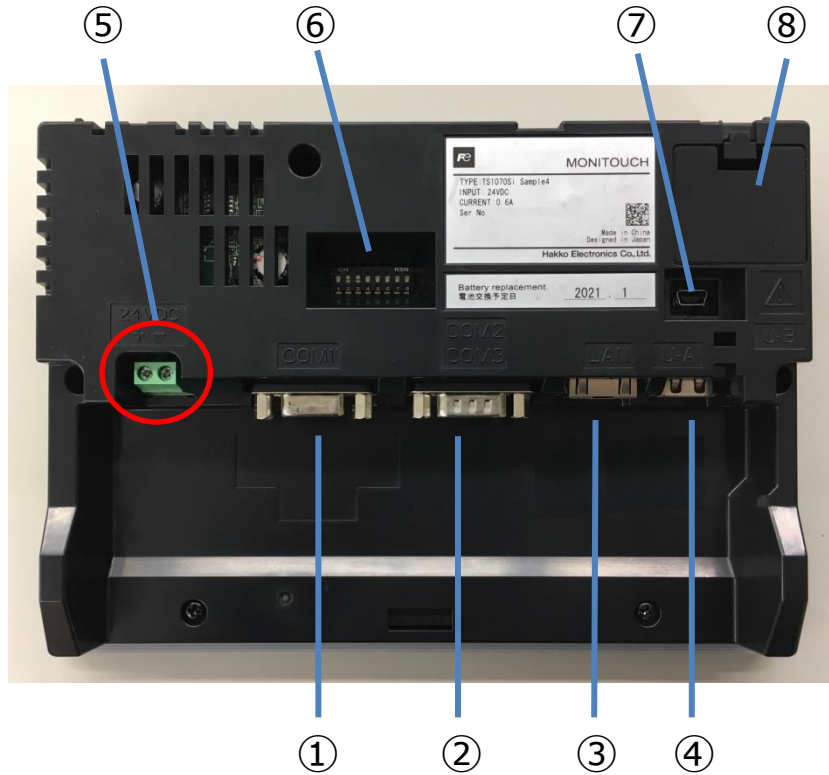
**TS1100Si**



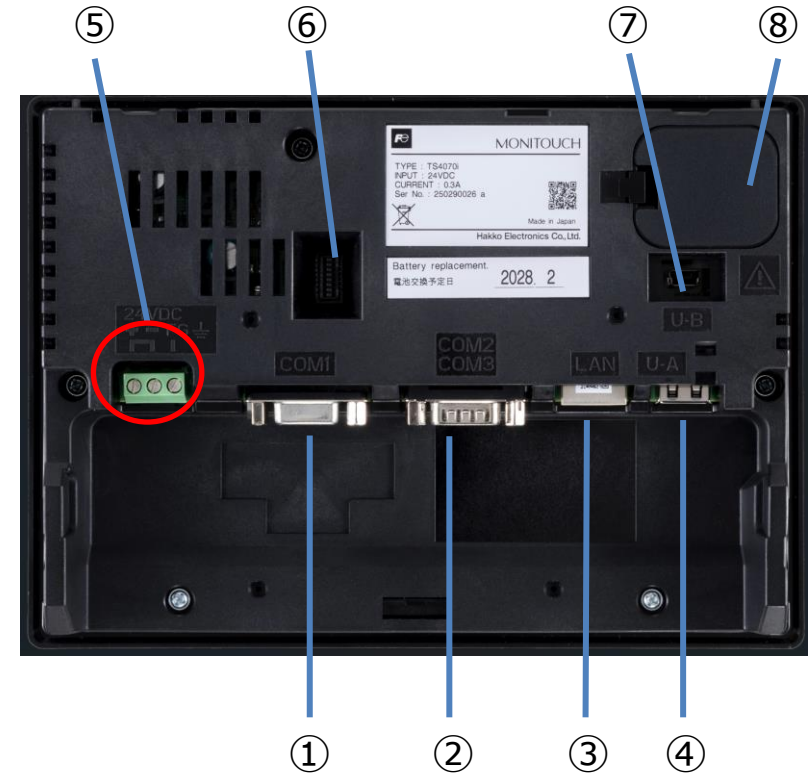
**TS4100i**

- ① COM1 (RS-422/RS-485)
- ② COM2/COM3 (RS-232C/RS-422/RS-485)
- ③ LAN (100BASE-TX/10BASE-T)
- ④ USB-A

- ⑤ Power supply terminal
- ⑥ DIP switch
- ⑦ USB mini-B
- ⑧ Battery compartment



**TS1070Si**



**TS4070i**

- ① COM1 (RS-422/RS-485)
- ② COM2/COM3 (RS-232C/RS-422/RS-485)
- ③ LAN (100BASE-TX/10BASE-T)
- ④ USB-A

- ⑤ Power supply terminal
- ⑥ DIP switch
- ⑦ USB mini-B
- ⑧ Battery compartment

Product	Software	OS	Transferring cable *1
TS4000 TS1000 TS1000S	Smart Editor  Supported with Ver.1.1.0.0 or later	Windows 10 (64bit) Windows 11 (64bit)	<ul style="list-style-type: none"> <li>•USB cable (USB mini-B to USB-A)</li> <li>•LAN cable *2</li> </ul>
TS1000 TS1000S	V-SFT-6  V-SFT-5	Windows Vista (32bit, 64bit) Windows 7 (32bit, 64bit) Windows 8 (32bit, 64bit) Windows 8.1 (32bit, 64bit) Windows 10 (32bit, 64bit) Windows 11 (64bit)	

\*1 The screen program can be transferred via USB flash drive.

\*2 LAN connector on models with an “i” in their model name supports Auto-MDIX.

Straight/crossover cables can be used with or without HUB.

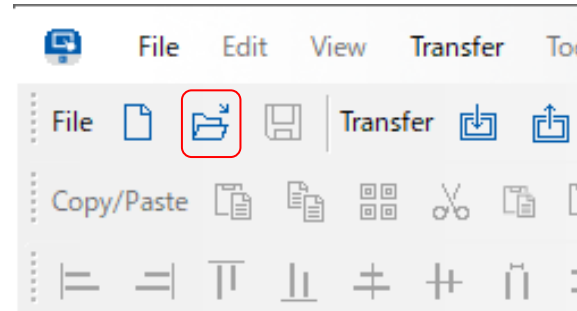
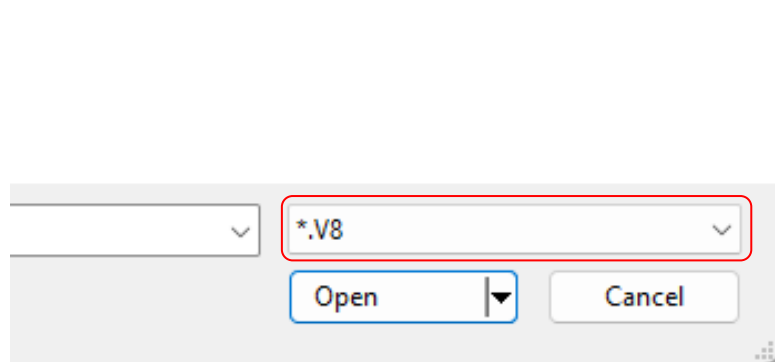
The screen program can be converted from TS1000/TS1000S to TS4000 using the configuration software Smart Editor.

## - Conversion procedures

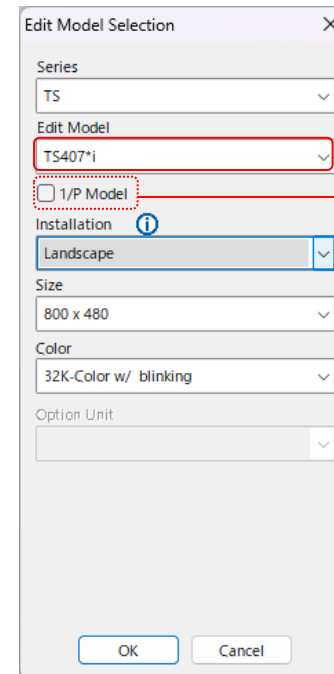
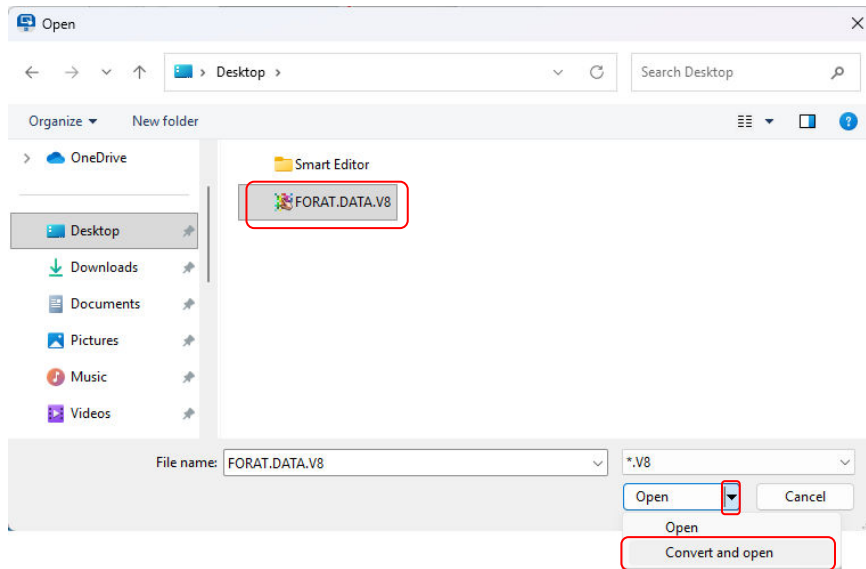
1. Start Smart Editor and click [Open] in the Startup menu or [Open] in the [File] menu. The screen program file can also be opened by dragging it onto Smart Editor.

If using this method, proceed to step 4.

2. Change the file extension to [\*.\*V8] in the [Open] dialog



3. Select the TS1000/TS1000S screen program file and click [Convert and open]. [Edit Model Selection] is opened.
4. Select the TS4000 series model and click [OK].



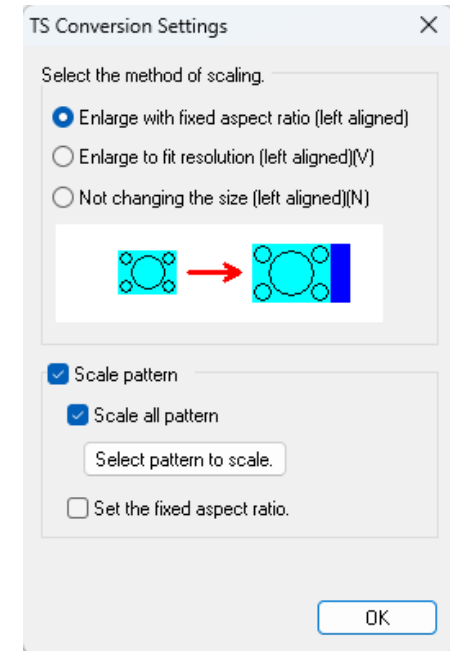
When replacing with TS4xx1i/TS4xx1Pi, select the checkbox.

5. A confirmation dialog may appear during conversion. For details about the confirmation dialog, refer to "Technical Information (EN\_TI-M-0904)".

6. When converting the program with different resolution, the dialog shown to the right will appear.

When enlarging parts: Select “Enlarge with fixed aspect ratio (left aligned)” or “Enlarge to fit resolution (left aligned)” and click [OK].

When not enlarging parts: Select “Not changing the size (left aligned)” and click [OK].



7. The screen program converted to TS4000 series is displayed on Smart Editor. Name and save the file.

**The converted TS4000 screen program cannot be converted back to the TS1000/TS1000S screen programs.**

**Confirm the operation with the TS4000 series unit before use.**

