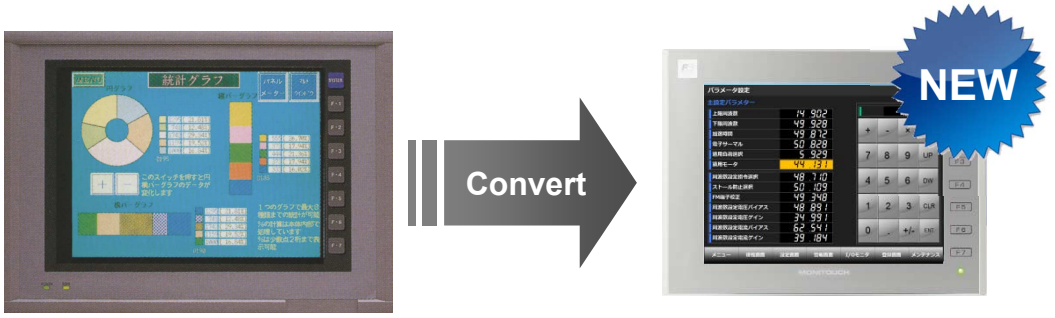
MONITOUCH

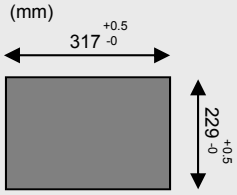
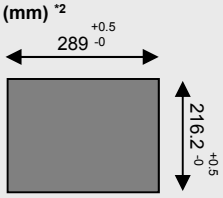
V9 Replacement Guidance

[V4 series]



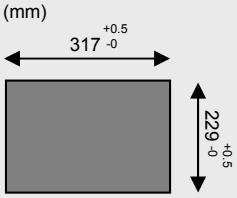
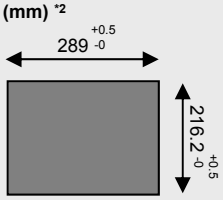
- Recommended models for replacement of V4T series

- Without RGB output

		V4T series		Recommended models for replacement
		V4T0x0x-x	V4T1x0x-x	V9100iC
MONITOUCH		- Front view	- Panel cut-out dimensions (mm) 	- Front view - **Panel cut-out dimensions (mm) *2** 
Display device		TFT color		TFT color
Colors		16 colors	8 colors	**16.77 million colors *3**
Resolution		640 × 480 dots		640 × 480 dots
Touch switch		Matrix		**Analog *4**
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Terminal block: RS-422/485		**D-sub 9-pin: RS-232C / RS-422/485 *5** **Modular jack 8-pin (2 ports): RS-232C / RS-485**
	Barcode	D-sub 9-pin (CN7): RS-232C *1		**Modular jack 8-pin (2 ports): RS-232C *6**
Storage device		Dedicated memory card *1		**SD/SDHC card, USB flash drive**
Power supply		85 to 265 VAC		**100 to 240 VAC**

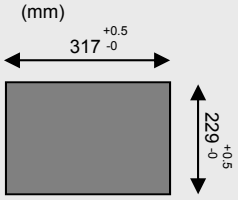
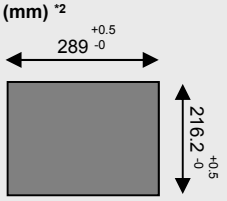
*1 Only for V4Tx☐ (☐: 2, 4, 5, 6)
*2 Use Hakko Electronics' mounting panel adaptor "PAD-V610".
*3 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.
*4 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.
*5 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using a terminal block, use "TC-D9".
*6 Use Hakko Electronics' cable "V6-BCD" and make a conversion cable between MJ ←→ D-sub 9-pin. For the wiring diagram, refer to page 4.

- With RGB output

		V4T series	Recommended models for replacement
		V4T2x0x-x	V9100iS
MONITOUCH		- Front view - Panel cut-out dimensions (mm) 	- Front view - **Panel cut-out dimensions (mm) *2** 
Display device		TFT color	TFT color
Colors		16 colors	**16.77 million colors *3**
Resolution		640 × 480 dots	**800 × 600 dots *4**
Touch switch		Matrix	**Analog *5**
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Terminal block: RS-422/485	**D-sub 9-pin: RS-232C / RS-422/485 *6** **Modular jack 8-pin (2 ports): RS-232C / RS-485**
	Barcode	D-sub 9-pin (CN7): RS-232C *1	**Modular jack 8-pin (2 ports): RS-232C *7**
RGB output		1CH	**Optional unit: GUR-02 (1CH) *4**
Storage device		Dedicated memory card *1	**SD/SDHC card, USB flash drive**
Power supply		85 to 265 VAC	**100 to 240 VAC**

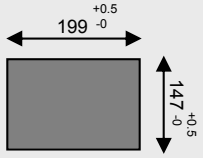
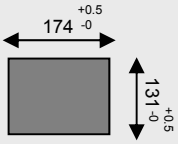
*1 Only for V4T2☐ (☐: 2, 4, 5, 6)
*2 Use Hakko Electronics' mounting panel adaptor "PAD-V610".
*3 Only for "picture" images, 3D parts, video images, and RGB display (when "GUR-10" or "GUR-11" is used). The other contents are displayed in 65,536 colors.
*4 The resolution specification is SVGA. Use the automatic resizing function when changing the MONITOUCH model setting in the screen program. The RGB signal is output in SVGA resolution.
*5 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.
*6 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using a terminal block, use "TC-D9".
*7 Use Hakko Electronics' cable "V6-BCD" and make a conversion cable between MJ ←→ D-sub 9-pin. For the wiring diagram, refer to page 4.

- Recommended models for replacement of V4C/V4W/V4B/V4H series

	V4C/V4W/V4B/V4H series			Recommended models for replacement
	V4C0x0x-x	V4C1x0x-x	V4W1x0x-x V4B1x0x-x V4H1x0x-x	V9100iC
MONITOUCH	- Front view - Panel cut-out dimensions (mm) 			- Front view - **Panel cut-out dimensions (mm) *2** 
Display device	STN color		STN monochrome	TFT color
Colors	16 colors	8 colors	8-level grayscale	**16.77 million colors *3**
Resolution	640 × 480 dots			640 × 480 dots
Touch switch	Matrix			**Analog *4**
Comm. I/F – Serial	D-sub 25-pin: RS-232C / RS-422/485 Terminal block: RS-422/485			**D-sub 9-pin: RS-232C / RS-422/485 *5** **Modular jack 8-pin (2 ports): RS-232C / RS-485**
Comm. I/F – Barcode	D-sub 9-pin (CN7): RS-232C *1			**Modular jack 8-pin (2 ports): RS-232C *6**
Storage device	Dedicated memory card *1			**SD/SDHC card, USB flash drive**
Power supply	85 to 265 VAC			**100 to 240 VAC**

*1 Only for V4Cx☐, V4W1☐, V4B1☐, and V4H1☐ (☐: 2, 4, 5, 6)
*2 Use Hakko Electronics' mounting panel adaptor "PAD-V610".
*3 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.
*4 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.
*5 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using a terminal block, use "TC-D9".
*6 Use Hakko Electronics' cable "V6-BCD" and make a conversion cable between MJ ←→ D-sub 9-pin. For the wiring diagram, refer to page 4.

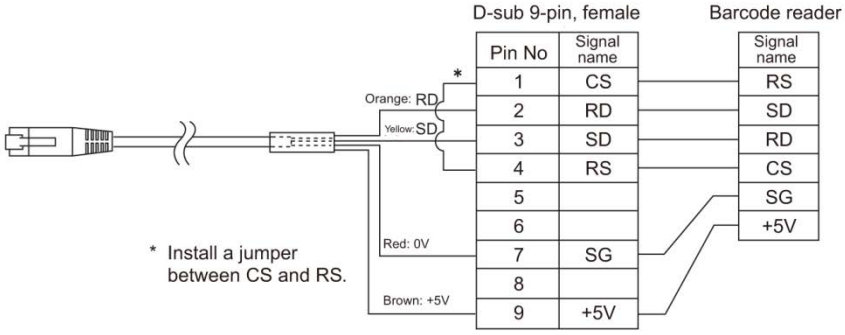
- Recommended models for replacement of V4SC/V4SW/V4SB series

	V4SC/V4SW/V4SB series		Recommended models for replacement
	V4SC0x0x-x	V4SW1x0x-x V4SB1x0x-x	V9060iTD
MONITOUCH	- Front view - Panel cut-out dimensions (mm) 		- Front view - **Panel cut-out dimensions (mm) *2** 
Display device	STN color	STN monochrome	**TFT color**
Colors	16 colors	8-level grayscale	**260 thousand colors *3**
Resolution	320 × 240 dots		**640 × 480 dots *4**
Touch switch	Matrix		**Analog *5**
Comm. I/F – Serial	D-sub 25-pin: RS-232C / RS-422/485		**D-sub 9-pin (with "DUR-00" attached): RS-232C / RS-422/485 *6** **Modular jack 8-pin (2 ports): RS-232C / RS-422/485**
Comm. I/F – Barcode	D-sub 9-pin (CN1): RS-232C *1		**Modular jack 8-pin (2 ports): RS-232C *7**
Power supply	24 VDC		24 VDC

*1 Only for V4SC02, V4SW12, and V4SB12
*2 Use Hakko Electronics' mounting panel adaptor "PAD-V606".
*3 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.
*4 The resolution specification is VGA. Use the automatic resizing function when changing the MONITOUCH model setting in the screen program.
*5 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.
*6 When using the existing cable with "DUR-00" attached, use Hakko Electronics' conversion cable "D9-D25".
When "DUR-00" is not attached (except when connecting a Mitsubishi A series CPU), use Hakko Electronics' conversion cable "MJ2-PLC". When connecting with a Mitsubishi A series CPU, use "V706-ACPU".
*7 Use Hakko Electronics' cable "V6-BCD" and make a conversion cable between MJ ←→ D-sub 9-pin. For the wiring diagram, refer to page 4.

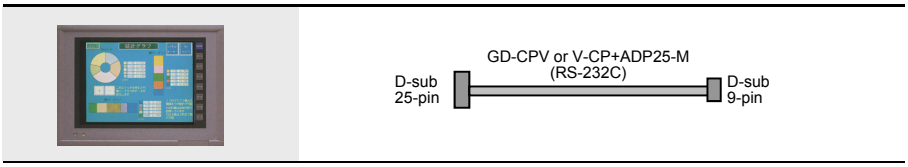
- Wiring diagram for MJ ←→/ D-sub 9-pin conversion cable for connection with a barcode reader

When replacing the V4 unit with the V9 unit, use Hakko Electronics' cable "V6-BCD" and make a conversion cable between MJ ←→ D-sub 9-pin.



- Screen program transfer

- V4 series

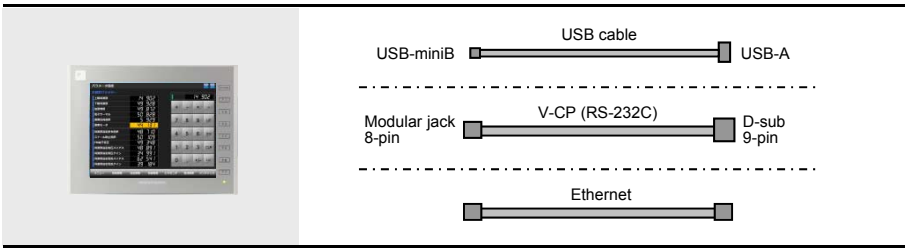


[Screen configuration software]

V-SFT-5 (Ver. 5)
Windows 98SE / NT4.0 / Me / 2000 / XP / XP 64 Edition / Vista (32bit, 64bit) / 7 (32bit, 64bit) / 8 (32bit, 64bit) / 8.1 (32bit, 64bit) / 10 (32bit, 64bit)

* It is possible to make a cable by yourself. For details on wiring, refer to the Hardware Specifications Manual of the relevant V4 series unit.

- V9 series



[Screen configuration software]

V-SFT-6 (Ver. 6)
Windows XP / XP 64 Edition / Vista (32bit, 64bit) / 7 (32bit, 64bit) / 8 (32bit, 64bit) / 8.1 (32bit, 64bit) / 10 (32bit, 64bit)

* Screen programs can also be transferred by using an SD card or USB flash drive.
* The LAN port of the V9 unit is compatible with Auto-MDIX. Both straight and cross cables are usable in either presence or absence of a hub.

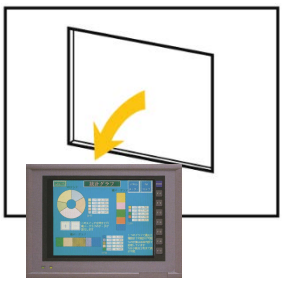
- Screen program conversion

The V4 series can be replaced with the V9 series by converting the V4 series screen program using V-SFT-6 (V series screen configuration software). However, note that 100% compatibility cannot be maintained and some functions may be limited or may not be used after replacement.
For details, refer to the V9 Series File Conversion Manual.

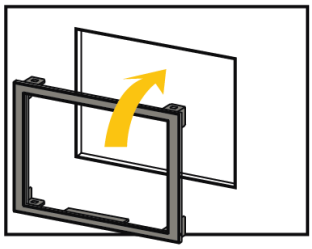
- Mounting panel adaptor (PAD-Vxxx)

A mounting panel adaptor is used when installing a new MONITOUCH model into the panel cut-out hole of the V4 series.

(1) Remove the V4 series unit from the panel.



(2) Install the mounting panel adaptor.



(3) Install a V9 series unit.

* The indicated recommended model for replacement can be used with minimal restrictions. Please note that other models not described here can also be used; make a selection according to your system requirements.

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