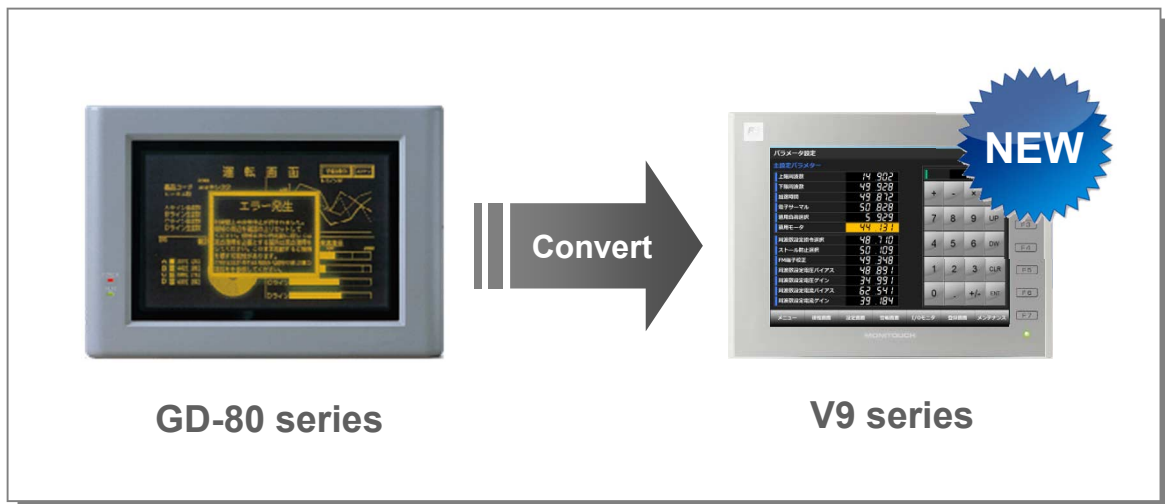



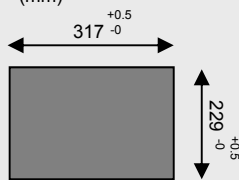
# MONITOUCH


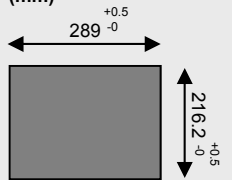
## V9 Replacement Guidance [GD-80 series]



- Recommended models for replacement of GD-80T series


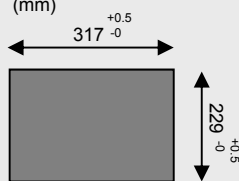
- Without RGB output


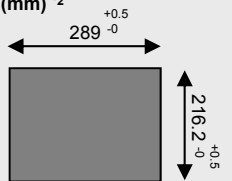
		GD-80T series	
		GD-80T0x0x-x	GD-80T0xMx-x
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	TFT color		
Colors	16 colors, 8 colors		
Resolution	640 × 400 dots		
Touch switch	Matrix		
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485	
		Terminal block: RS-422	D-sub 15-pin: RS-422
	Barcode	D-sub 9-pin (CN4): RS-232C <sup>*1</sup>	
Storage device	Dedicated memory card (D-sub 15-pin (CN5)) <sup>*1</sup>		
Power supply	85 to 265 VAC		

		Recommended models for replacement	
		V9100iC	
	- Front view		
	- Panel cut-out dimensions (mm) <sup>*2</sup>		
Display device	TFT color		
Colors	16.77 million colors <sup>*3</sup>		
Resolution	640 × 480 dots		
Touch switch	Analog <sup>*4</sup>		
Comm. I/F	<b>D-sub 9-pin: RS-232C / RS-422/485 <sup>*5</sup></b> <b>Modular jack 8-pin (2 ports): RS-232C / RS-485</b>		
	<b>Modular jack 8-pin (2 ports): RS-232C <sup>*6</sup></b>		
	<b>Built-in SRAM, SD/SDHC card, USB flash drive</b>		
Power supply	100 to 240 VAC		

<sup>\*1</sup> Only for GD-80T02  
<sup>\*2</sup> Use Hakko Electronics' mounting panel adaptor "PAD-V610".  
<sup>\*3</sup> Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.  
<sup>\*4</sup> Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.  
<sup>\*5</sup> When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using a terminal block, use "TC-D9".  
 When directly connecting with a Mitsubishi A/QnA/FX CPU, use "D9-MB-CPUQ". When using the existing cable, use Hakko Electronics' conversion cable "D9-D15".  
<sup>\*6</sup> Use Hakko Electronics' cable "V6-BCD" and make a conversion cable between MJ ↔ D-sub 9-pin. For the wiring diagram, refer to page 5.


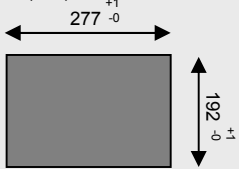
- With RGB output


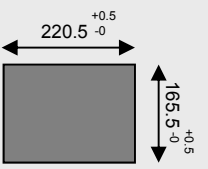
		GD-80T series	
		GD-80TAx0x-x	GD-80TAxMx-x
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	TFT color		
Colors	16 colors, 8 colors		
Resolution	640 × 400 dots		
Touch switch	Matrix		
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485	
		Terminal block: RS-422	D-sub 15-pin: RS-422
	Barcode	D-sub 9-pin (CN4): RS-232C <sup>*1</sup>	
RGB output	1CH		
Storage device	Dedicated memory card (D-sub 15-pin (CN5)) <sup>*1</sup>		
Power supply	85 to 265 VAC		

		Recommended models for replacement	
		V9100iS	
	- Front view		
	- Panel cut-out dimensions (mm) <sup>*2</sup>		
Display device	TFT color		
Colors	16.77 million colors <sup>*3</sup>		
Resolution	800 × 600 dots <sup>*4</sup>		
Touch switch	Analog <sup>*5</sup>		
Comm. I/F	<b>D-sub 9-pin: RS-232C / RS-422/485 <sup>*6</sup></b> <b>Modular jack 8-pin (2 ports): RS-232C / RS-485</b>		
	<b>Modular jack 8-pin (2 ports): RS-232C <sup>*7</sup></b>		
	<b>Optional unit: GUR-02 (1CH) <sup>*3</sup></b>		
	<b>Built-in SRAM, SD/SDHC card, USB flash drive</b>		
Power supply	100 to 240 VAC		

<sup>\*1</sup> Only for GD-80TA2  
<sup>\*2</sup> Use Hakko Electronics' mounting panel adaptor "PAD-V610".  
<sup>\*3</sup> 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.  
<sup>\*4</sup> 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.  
<sup>\*5</sup> Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.  
<sup>\*6</sup> When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using a terminal block, use "TC-D9".  
 When directly connecting with a Mitsubishi A/QnA/FX CPU, use "D9-MB-CPUQ". When using the existing cable, use Hakko Electronics' conversion cable "D9-D15".  
<sup>\*7</sup> Use Hakko Electronics' cable "V6-BCD" and make a conversion cable between MJ ↔ D-sub 9-pin. For the wiring diagram, refer to page 5.


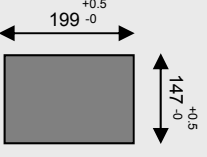
- Recommended models for replacement of GD-80E series


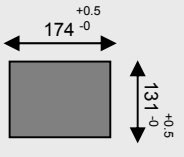
		GD-80E series	
		GD-80Exxx-x	GD-80ExxMx-x
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	EL / high-luminance EL		
Colors	2 colors		
Resolution	640 × 400 dots		
Touch switch	Matrix		
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485	
	Barcode	Terminal block: RS-422	D-sub 15-pin: RS-422
Storage device	Dedicated memory card (D-sub 15-pin (CN5)) *1		
Power supply	85 to 265 VAC		

		Recommended models for replacement	
		V9080iCD	
	- Front view		
	- Panel cut-out dimensions (mm) *2		
		TFT color	
		16.77 million colors *3	
		640 × 480 dots	
		Analog *4	
		D-sub 9-pin: RS-232C / RS-422/485 *5	
		Modular jack 8-pin (2 ports): RS-232C / RS-485	
		Modular jack 8-pin (2 ports): RS-232C *6	
		Built-in SRAM, SD/SDHC card, USB flash drive	
		24 VDC *7	

\*1 Only for GD-80Ex2x  
 \*2 Use Hakko Electronics' mounting panel adaptor "PAD-V608-01".  
 \*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".  
 When directly connecting with a Mitsubishi A/QnA/FX CPU, use "D9-MB-CPUQ". When using the existing cable, use Hakko Electronics' conversion cable "D9-D15".  
 \*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 5.  
 \*7 Use Hakko Electronics' AC power unit "V9080C-PW".



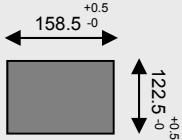
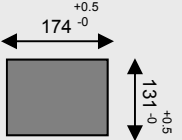
- Recommended models for replacement of GD-81SC/GD-81SW/GD-81SB/GD-81SH series

		GD-81S series	
		GD-81SCx-x	GD-81SWx-x GD-81SBx-x GD-81SHx-x
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	STN color	STN monochrome	
Colors	16 colors	8-level grayscale	
Resolution	320 × 240 dots		
Touch switch	Matrix		
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485	
Power supply	24 VDC		

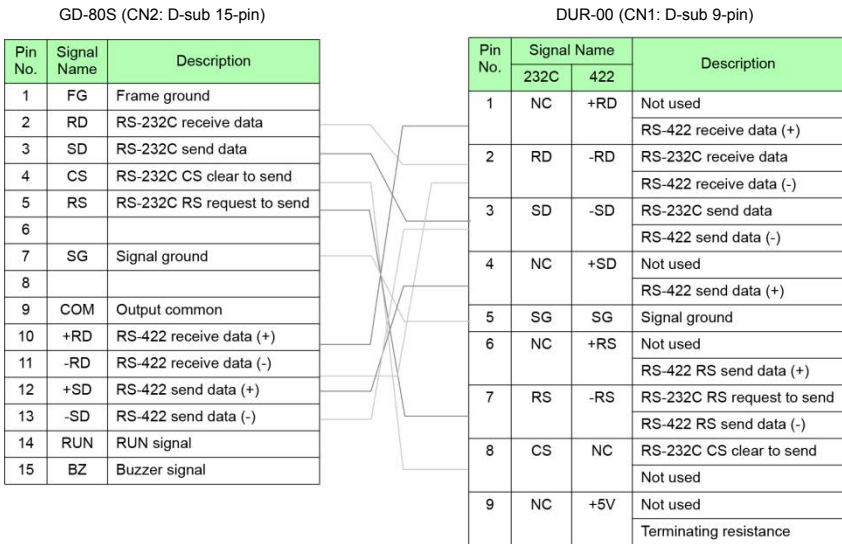
		Recommended models for replacement	
		V9060iTD	
	- Front view		
	- Panel cut-out dimensions (mm) *1		
		TFT color	
		260 thousand colors *2	
		640 × 480 dots *3	
		Analog *4	
		D-sub 9-pin (with "DUR-00" attached): RS-232C / RS-422/485 *5	
		Modular jack 8-pin (2 ports): RS-232C / RS-422/485 *6	
		24 VDC	

\*1 Use Hakko Electronics' mounting panel adaptor "PAD-V606".  
 \*2 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.  
 \*3 The resolution specification is VGA. Use the automatic resizing function when changing the MONITOUCH model setting in the screen program.  
 \*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 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".  
 \*6 The MJ2 port can be used for connection via RS-422 (4-wire connection).

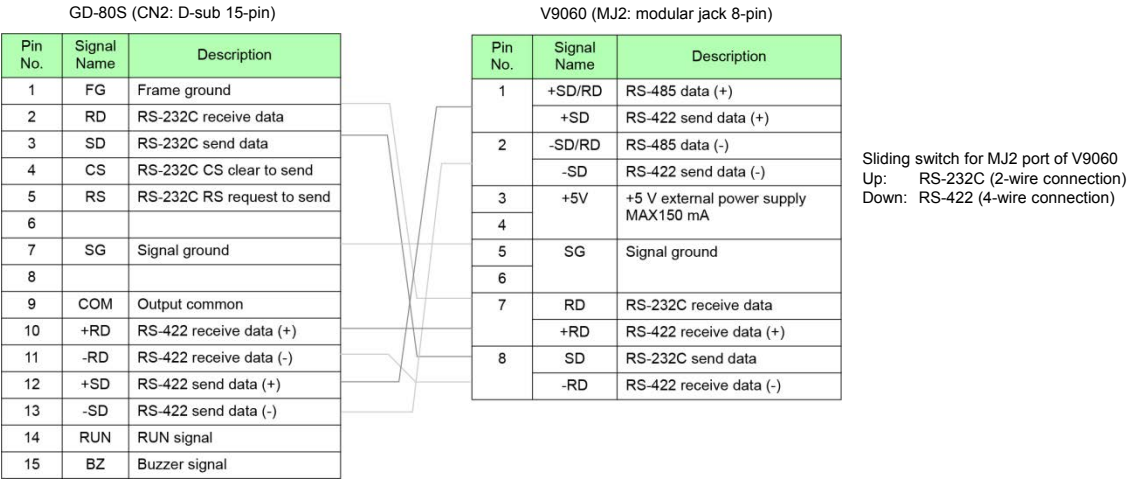
- Recommended models for replacement of GD-80S series

		GD-80S series		Recommended models for replacement	
		GD-80SEx-x	GD-80SLx-x	V9060ITD	
MONITOUCH	- Front view				
	- Panel cut-out dimensions (mm)				
Display device		High-luminance EL	STN monochrome	TFT color	
Colors		2 colors	2-level grayscale	260 thousand colors *2	
Resolution		320 x 240 dots		640 x 480 dots *3	
Touch switch		Matrix		Analog *4	
Comm. I/F	Serial	D-sub 15-pin: RS-232C / RS-422/485 D-sub 9-pin: RS-232C (for screen program transfer)		D-sub 9-pin (with "DUR-00" attached): RS-232C / RS-422/485 *5 Modular jack 8-pin (2 ports): RS-232C / RS-485 *6	
Power supply		24 VDC		24 VDC	

\*1 For details on mounting, contact your local distributor.  
 \*2 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.  
 \*3 The resolution specification is VGA. Use the automatic resizing function when changing the MONITOUCH model setting in the screen program.  
 \*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 with "DUR-00" attached, modify the connector as shown in the following pin arrangement diagram.

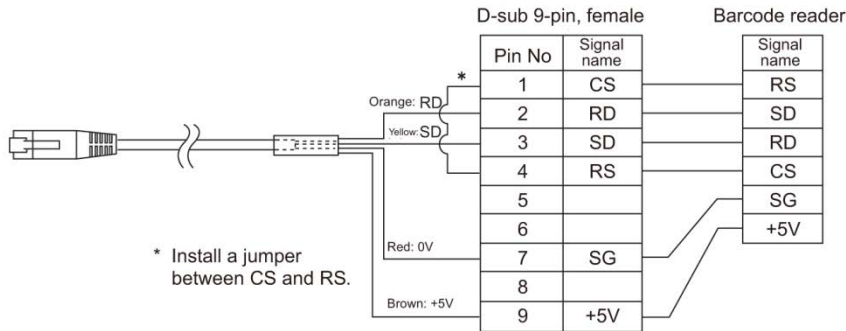


\*6 When using the existing cable without attaching "DUR-00" (except when connecting a Mitsubishi A series CPU), modify the connector as shown in the following pin arrangement diagram. When connecting with a Mitsubishi A series CPU, use "V706-ACPU". The MJ2 port can be used for connection via RS-422 (4-wire connection).



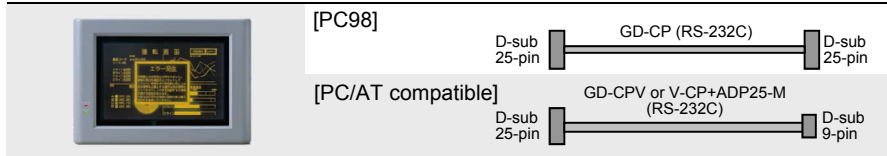
**- Wiring diagram for MJ ↔ D-sub 9-pin conversion cable for connection with a barcode reader**

When replacing the GD-80T/GD-80E 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**

**- GD-80/GD-81S series**

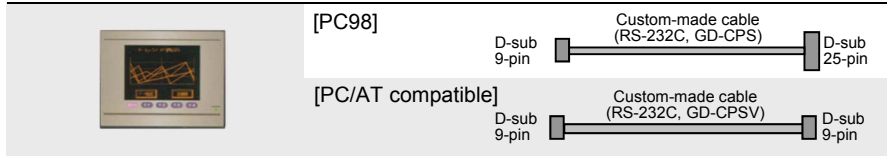


[Screen configuration software]

**GD-SFT80**  
PC98 MS-DOS

**GD-SFT80W**  
Windows Ver.3.1 / 95 / 98 / NT

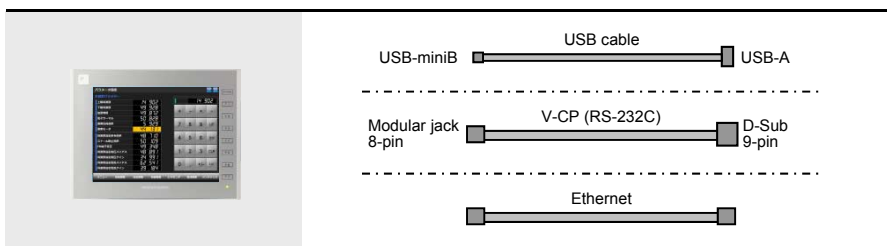
**- GD-80S series**



\* For details on wiring drawings, refer to the GD-80S Hardware Specifications Manual.



**- 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**

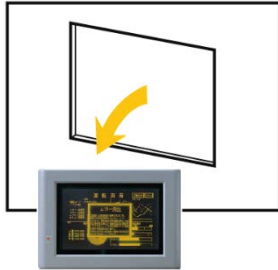
The GD-80 series can be replaced with the V9 series by converting the GD-80 series screen program using V-SFT-6 (V series screen configuration software). However, note that 100% compatibility cannot be maintained and some functions may be limited or may not be used after replacement.

For details, refer to the V9 Series File Conversion Manual.

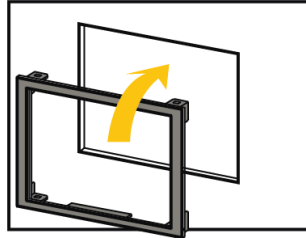
**- Mounting panel adaptor (PAD-Vxxx)**

A mounting panel adaptor is used when installing a new MONITOUCH model into the panel cut-out hole of the GD-80 series.

(1) Remove the GD-80 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.

**Hakko Electronics Co., Ltd.**

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<https://monitouch.fujielectric.com/>