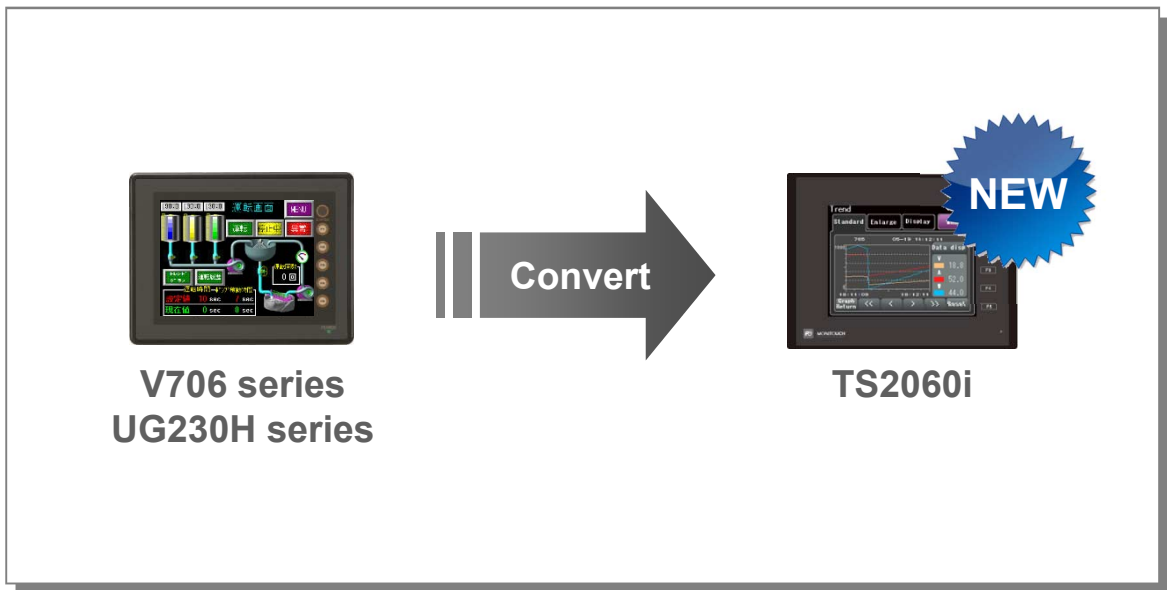


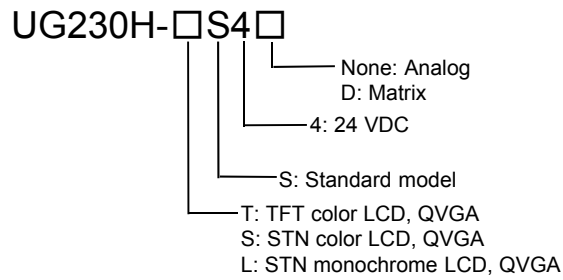
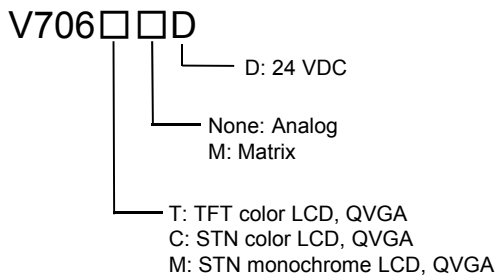
TECHNOSHOT

TS2060 Replacement Guidance

- V706 > TS2060i
- UG230H > TS2060i



- V706 series/UG230H series models



- Main differences

	V706 series/UG230H series		
	V706T(M)D UG230H-TS4(D)	V706C(M)D UG230H-SS4(D)	V706M(M)D UG230H-LS4(D)
Front view			
External dimensions (mm)			
Panel cut-out dimensions (mm)			
Display device	TFT color	STN color	STN monochrome
Colors	32,768 colors		8-level grayscale
Effective display area	5.7-inch		
Resolution	320 × 240 dots		
Memory	FROM	1.47 MB	
	SRAM	128 KB	
Touch switch	Analog / matrix *1		
Comm. I/F	Serial	CN1	D-sub 25-pin (with the relevant optional unit attached *2): RS-232C / RS-422/485
		MJ1	Modular jack 8-pin: RS-232C / RS-485 (2-wire)
		MJ2	Modular jack 8-pin: RS-232C / RS-422 (4-wire)/485 (2-wire)
	USB	USB-A, USB-B	
	Network	1CH (with the relevant optional unit *2 attached)	
Storage device	CF card (with the relevant optional unit *2 attached)		
Power supply	24 VDC		
Power supply terminal block shape *4	Spade/ring terminal, Screw drive: Phillips		

Recommended models for replacement	
TS2060i	
TFT color	
Color: 65,536 colors Monochrome: 16-level grayscale	
5.7-inch	
320 × 240 dots	
10.5 MB	
512 KB	
Analog *5	
D-sub 9-pin (with "DUR-00" attached) *6: RS-232C / RS-422/485	
Modular jack 8-pin: RS-232C / RS-485 (2-wire)	
Modular jack 8-pin: RS-232C / RS-422 (4-wire)/485 (2-wire)	
USB-A, USB-miniB	
1CH (Auto-MDIX)	
Communication unit: CUR-xx	
SD/SDHC card (built-in slot)	
24 VDC	
Pin terminal, Screw drive: Slot	

*1 V706xxMx, UG230H-xxxD: Matrix switch

*2 V706: DU-01, UG230H: UG230A-DCL

*3 UG230H: UG230P-AP+UG03I-x, UG230I-T, UG230I-S

*4 For details, refer to page 3.

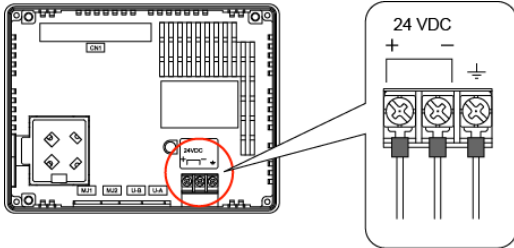
*5 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.

*6 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25".

- Power supply terminals

The shape of the terminal block differs. If the power supply cable is connected with a spade or ring terminal, the end of the cable must be modified.
Connect the frame ground (FG) wire for communication to the FG terminal for communication.

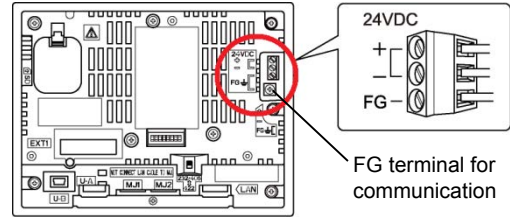
- V706 series/UG230H series



• Power supply cable specifications

Power supply cable, FG wire: AWG 16 to AWG 14

- TS2060



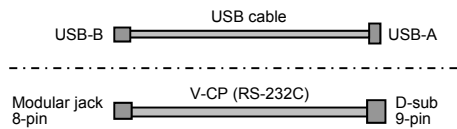
* A flat-head screwdriver is necessary to tighten the screws for the power supply terminals.
Recommended screwdriver: SZS 0.6 × 3.5 (Phoenix Contact)

• Power supply cable specifications

When directly connecting the cable	Power supply cable: AWG 18 to AWG 14, stranded wire/solid wire (diameter: 1.0 to 1.6 mm) FG wire: AWG 20 to AWG 14, stranded wire/solid wire (diameter: 0.8 to 1.6 mm)
When using pin terminals	Recommended pin terminal: AI 0.75-6 GY, AI 1-6 RD, AI 1.5-6 BK (Phoenix Contact's pin type) Recommended crimping tool: CRIMPFOX 6 (Phoenix Contact)

- Screen program transfer

[V706/UG230H]

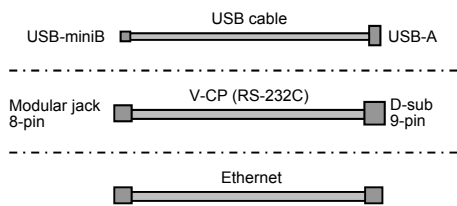


V-SFT-5 (Ver. 5)

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)

* Screen programs can also be transferred by using a CF card or Ethernet (with the relevant optional unit or communication unit "CU-03-3" attached).

[TS2060i]



V-SFT-6 (Ver. 6.0.16.0 or later)

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 TS2060i is compatible with Auto-MDIX. Both straight and cross cables are usable in either presence or absence of a hub.

- Screen program conversion

The V706/UG230H screen program can be converted to the TS2060i screen program by using V-SFT-6 (screen configuration software). When a V706/UG230H screen program is opened on V-SFT-6, the [Edit Model Selection] window is displayed. Select "TS2060i".

For details, refer to the TS2060 File Conversion Manual.

* 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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