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FP2500-T42-24V / FP2600-T42-24V

Installation Guide



- Prior to connecting the FP2500-T42-24V/FP2600-T42-24V (hereafter referred to as the "FP" or "FP unit") unit's power cord terminals to the Terminal Block, be sure to check that the FP unit's power supply is completely turned OFF, via a breaker, or similar unit.
- Whenever changing the backlight be sure to unplug the FP unit's power cord and wear protective gloves to prevent electric shocks and burns.
- Do not open or remodel the FP unit. Doing so may lead to a fire or electric shock.
- Do not use voltage levels that exceed the FP unit's specified voltage range. Doing so may cause a fire or an electric shock.
- Do not use the FP in an environment where flammable gases are present, since operating the FP may cause an explosion.
- Do not use the FP as a warning device for critical alarms that can cause serious operator injury, machine damage or production stoppage. Critical alarm indicators and their control/activator units must be designed using stand-alone hardware and/ or mechanical interlocks.
- Do not use FP unit touch panel switches in human-safety-related or important disaster prevention situations. For safety-related switches, such as an emergency stop switch, be sure to use a separately installed mechanical switch.
- After the FP unit's backlight burns out, unlike "Standby Mode", the unit's touch panel is still active. If the operator fails to notice that the backlight is burned out and touches the panel, a potentially dangerous machine operation error can occur. Therefore, do <u>not</u> use FP unit touch-screen switches for the control of equipment safety mechanisms, such as Emergency Stop switches, etc. that protect humans from injury and equipment from damage.

If your FP unit's backlight suddenly turns OFF, use the following steps to determine if the backlight is actually burned out.

- 1) If your currently running FP application is <u>not</u> set to turn the backlight OFF, <u>and</u> the screen has gone blank, your backlight is burned out.
- 2) If your current FP application is set to turn the backlight OFF, if touching a corner of the screen does not cause the display to reappear, your backlight is burned out.
- To prevent operator injury or machine damage, be sure to design your machine operation system so that the machine will not malfunction due to a communication fault between the FP unit and its host controller.
- Do not use the FP with aircraft control devices, aerospace equipment, central trunk data transmission (communication) devices, nuclear power control devices, or medical life support equipment, due to these devices' inherent requirements of extremely high levels of safety and reliability.
- When using the FP with transportation vehicles (trains, cars and ships), disaster and crime prevention devices, various types of safety equipment, non-life support related medical devices and others, be sure to use redundant and/or failsafe system designs to ensure the appropriate degree of system reliability and safety.

To prevent this unit from malfunctioning:

- Do not strike the FP unit's touch panel with a hard or heavy object, or press on the touch panel with too much force, since it may damage the display.
- Do not install the FP where the temperature will exceed the specified range.
- Be sure that water, liquids or metal particles do not enter the FP, since it may cause a malfunction or a short circuit.
- Do not install the FP where sudden, large changes in temperature may occur. These changes may cause condensation to form inside the unit, possibly leading to a malfunction.
- To prevent excessive heat from building up inside the unit, do not install the FP where its ventilation holes may be blocked. Also, do not install or store the FP near high temperature equipment.
- Do not install or store the FP where direct sunlight or high levels of dust exist.
- Since the FP is a precision instrument, do not install or store it where either strong shocks or excessive vibration may occur.
- Do not install or store the FP in an area containing chemicals or chemical fumes.
- Do not use paint thinner or organic solvents to clean the FP unit's case or screen.
- After turning the FP OFF, be sure to wait a few seconds before turning it ON again. If the FP is started too soon, it may not start up correctly.

UL/c-UL/CSA Application Notes

The FP2500-T42-24V/FP2600-T42-24V units are UL/c-UL listed products (UL File No. E182139). These units conform as components to the following standards:

■<u>UL508</u> Industrial Control Equipment

<u>UL1604</u> Electrical Equipment for use in Class 1 & 2 - Division 2, or Class III Hazardous

(classified) locations.

CAN/CSA-C22.2, No.1010-1 Measurement and Control Equipment Safety Requirements for

Electrical Equipment for Measurement and Laboratory

FP2500-T42-24V (UL Registration Model No.:3280033-02) FP2600-T42-24V (UL Registration Model No.:3280033-04)

<Cautions>

Be aware of the following items when building the FP into an end-use product:

- The FP unit's rear face is not approved as an enclosure. When building the FP unit into an end-use product, be sure to use an enclosure that satisfies required standards as the end-use product's overall enclosure.
- The FP unit must be used indoors only.
- This unit should be installed in the front face of a metal panel.
- If the FP unit is installed so as to cool itself naturally, be sure to install it in a vertical panel. Also, be sure that the FP unit is installed at least 100 mm away from any adjacent structures or machine parts. If these conditions are not met, the heat generated by the FP unit's internal components may cause the unit to fail to meet UL standard.

UL1604 Conditions of Acceptability and Handling Cautions:

- Power, input and output (I/O) wiring must be in accordance with Class I, Division 2 wiring methods
 Article 501- 4(b) of the National Electrical Code, NFPA 70 within the United States, and in accordance with Section 18-152 of the Canadian Electrical Code for units installed within Canada.
- 2. Suitable for use in Class I, Division 2, Groups A, B, C and D, Hazardous Locations.
- 3. WARNING: Explosion hazard substitution of components may impair suitability for Class I, Division 2.
- 4. WARNING: Explosion hazard when in hazardous locations, turn power OFF before replacing or wiring modules.
- 5. WARNING: Explosion hazard do not disconnect equipment unless power has been switched OFF, or the area is known to be non-hazardous.
- 6. WARNING: Explosion hazard do not connect/disconnect equipment unless area is known to be nonhazardous.

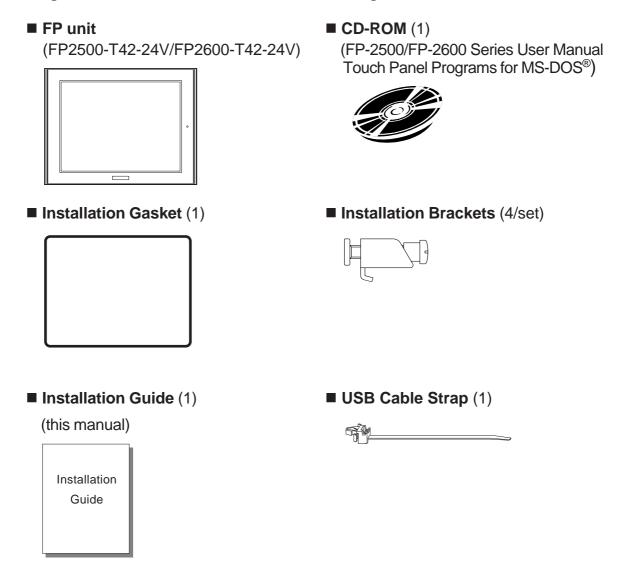
CE Marking Notes

The FP2500-T42-24V/FP2600-T42-24V units are CE marked products that conform to EMC directives EN55011 Class A and EN61000-6-2.

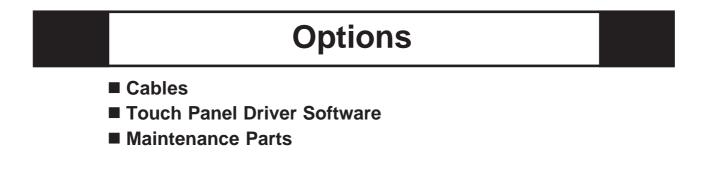
For detailed CE marking information, please contact your local FP distributor.

Package Contents

The following items are included in the FP unit's package. Before using the FP, please confirm that all items listed here are present.



This unit has been carefully packed, with special attention to quality. However, should you find anything damaged or missing, please contact your local FP distributor immediately.



About The Manual

The FP-2500/FP-2600 Series unit's PDF manual file (fp2000e.pdf) is contained in the CD-ROM's [Manual\Eng] folder.

Reading a PDF file requires installation of the Adobe Corporation's Acrobat® Reader.

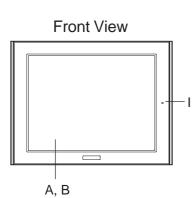
Acrobat[®] Reader Installation:

To install the Acrobat[®] Reader software, follow the steps given below.

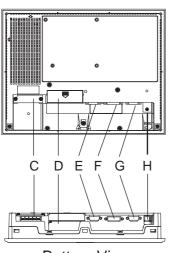
- 1) This software, in the form of a self-extracting file, is located in this CD-ROM in the folder titled [reader]. Use the Explorer software to find the file [Reader\Eng\ ar505enu.exe], and double-click on the file icon to begin the Reader installation.
- 2) After installation begins, follow the instructions given.

Acrobat® Reader Copyright© Adobe Systems Incorporated. All rights reserved.

1 Part Names







Bottom View

A: TFT Color LCD

Displays host data.

B: Touch Panel

Switches screens or writes/sends data to the host.

C: Power Input Terminal Block Provides power to the FP unit via the input and ground terminals.

D: Dip Switch Cover

Covers the FP unit's operation mode dip switches.

- E: Analog RGB Interface Connector Connector for analog RGB cable.
- F: DVI-D Interface Connector Connector for DVI-D cable.

G: RS-232C Interface Connector

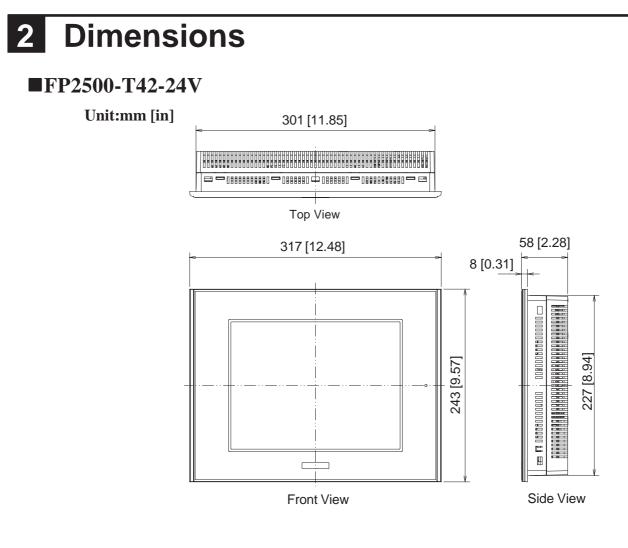
Connector for RS-232C (serial) cable. Used for sending touch panel data to the host, and receiving commands from the host.

H: USB Interface Connector

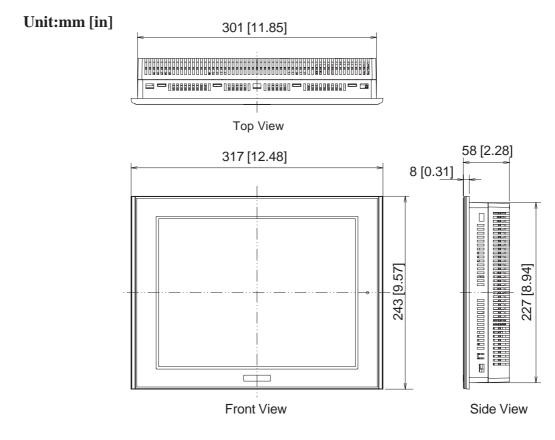
Connector for USB cable. Used for sending touch panel data to the host, and receiving commands from the host.

I: Front LED

Used to indicate power supply, backlight or image signal input status.

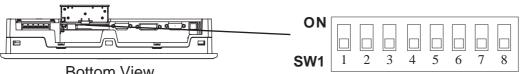


FP2600-T42-24V



3 Dip Switches

The FP unit's dip switches are located behind the Dip Switch Cover. Dip switch setting are effective only when starting up the FP unit. After changing any dip switch settings, be sure to restart your FP unit.



Bottom View

SW No.	Function	Description	Factory Settings
1-1	Switch between USB and RS-232C for touch panel data transmission.	Used to set the touch panel data input (command control) method to either USB or RS-232C. ON : USB OFF : RS-232C (Default setting)	
1-2	Display/hide the OSD.	Used to display or hide the OSD. ON :Hide OFF:Display (Default setting)	
1-3 1-4	Reserved	Set this switch to OFF	All OFF
1-5	Switch between analog RGB and DVI-D input.	Used to change the image input method. ON : DVI-D OFF : analog RGB (Default setting)	
1-6			
1-7	Reserved	Be sure these switches are always set to OFF	
1-8			

4 Interfaces

■Analog RGB Interface

_	
Input Signal Type	Analog RGB
	Image signal: analog RGB
Input Signal Characteristics	Synchronous signal: TTL level, negative true or positive true
	Scanning type: non-interlace
	CONTRAST
	BLACK LEVEL
	H-POS
OSD Settings	V-POS
(On Screen Display)	H-SIZE
	PHASE
	BACKLIGHT
	DEFAULT (ALL CLEAR)

The FP unit's available screen resolutions are as follows: (Unit: dot/pixel)

♦ FP2500-T42-24V

Size	H Sync. (kHz)	V Sync. (Hz)	Dot Clock (MHz)	Screen Resolution Expansion (H: Horizontal) (V: Vertical)	Display Resolution
640×350 ^{*1}	31.469	70.000	25.175	× 1.0 (H)	640 × 420
640×400	31.469	70.000	25.175	× 1.0 (1) × 1.2 (V)	640 × 480
640×400	24.827	56.420	21.053	~ 1.2 (V)	640 × 480
640×480	31.469	59.992	25.175	× 1.0	640 × 480
720×350 ^{*1,2,3}	31.469	70.000	28.320	× 1.0 (H)	640 × 420
720×400 ^{*2,3}	31.469	70.000	28.320	× 1.2 (V)	640 × 480

*1 When the 350 pixel (vertical) signal setting is selected, 400 pixels, including 50 pixels at the top and at the bottom of the screen, will be enlarged and displayed at 480 pixels (1.2times).

- *2 Select "720 x 400 Display Resolution 720 x 400 DSP" in the OSD (On Screen Display) "System Setting" screen.
- *3 When the 720 pixel (horizontal) signal setting is selected,
 - -When "720 x 400 DSP" is ON; only 640 pixels are displayed (80 pixels are not displayed.)
 - -When "720 x 400 DSP" is OFF; all pixels are displayed but images may be cut off if they do not match the sampling.

FP2600-T42-24V

Size	H Sync. (kHz)	V Sync. (Hz)	Dot Clock (MHz)	Screen Resolution Expansion (H: Horizontal) (V: Vertical)	Display Resolution
640×350 ^{*1}	31.469	70.000	25.175	× 1.25 (H)	800 × 525
640×400	31.469	70.000	25.175	× 1.23 (II) × 1.5 (V)	800 × 600
640×400	24.827	56.420	21.053	× 1.5 (V)	800 × 600
640×480	31.469	59.992	25.175	× 1.25 (H)	800 × 600
640×480	35.000	66.670	30.240	× 1.25 (1) × 1.25 (V)	800 × 600
640×480	37.861	72.810	31.500	~ 1.23 (V)	800 × 600
720×350 ^{*1,2}	31.469	70.000	28.320	× 1.0 (H)	720 × 525
720×400 ^{*1}	31.469	70.000	28.320	× 1.5 (V)	720 × 600
800×600	35.156	56.250	36.000	× 1.0	800 × 600
800×600	37.879	60.317	40.000	× 1.0	800 × 600

*1 When the 350 pixel (vertical) signal setting is selected, 400 pixels, including 50 pixels at the top and at the bottom of the screen will be enlarged and displayed at 600 pixels (1.5 times).

*2 Select "720 x 400 Display Resolution 720 x 400 DSP" in the OSD (On Screen Display) "System Setting" screen.

No.	Signal Name	Condition	Pin Location
1	Analog R	R signal input	
2	Analog G	G signal input	
3	Analog B	B signal input	
4	Reserved	NC (spare for input)	
5	Digital grounding	Digital signal GND	
6	Return R	R signal GND	15 000 5
7	Return G	G signal GND	
8	Return B	B signal GND	
9	Reserved	NC (spare for input)	
10	Digital grounding	Digital signal GND	\bigcirc
11	Reserved	NC (spare for input)	
12	Reserved	NC (spare for input)	
13	H. SYNC	Horizontal synchronous signal input	
14	V. SYNC	Vertical synchronous signal input	
15	Reserved	NC (spare for input)	

♦ Pin Assignments and Signal Names for Analog RGB

Connector: Connector set screw: Analog RGB Cable: Mini Dsub 15 pin male Inch type (4-40) FP-CV02-45, FP-CV00, FP-CV01 (VGA standard) (Manufactured by Digital Electronics Corporation of Japan)



If a cable other than the specified Analog RGB cable is used, FP unit operation cannot be guaranteed due to the possibility of noise interference.

DVI-D Interface

Input signal type	DVI-D
	H-POS
Setting by OSD	V-POS
(On Screen Display)	BACKLIGHT
	DEFAULT (ALL CLEAR)

The FP unit's available screen resolutions are as follows: (Unit: dot/pixel)

FP2500-T42-24V

Size	H Sync. (kHz)	V Sync. (Hz)	Dot Clock (MHz)	Screen Resolution Expansion (H: Horizontal) (V: Vertical)	Display Resolution
640×400	31.469	70.000	25.175	× 1.0 (H)	640 × 480
640×400	24.827	56.420	21.053	× 1.2 (V)	640 × 480
640×480	31.469	59.992	25.175	× 1.0	640 × 480
720×400 ^{*1}	31.469	70.000	28.320	× 1.0 (H) × 1.2 (V)	640 × 480

*1 When the horizontal 720 pixel signal is input;

-VGA Graphic & Text mode displays 640 pixels only and 80 pixels are not displayed.

FP2600-T42-24V

Size	H Sync. (kHz)	V Sync. (Hz)	Dot Clock (MHz)	Screen Resolution Expansion (H: Horizontal) (V: Vertical)	Display Resolution
640×400	31.469	70.000	25.175	× 1.25 (H)	800 × 600
640×400	24.827	56.420	21.053	× 1.5 (V)	800 × 600
640×480	31.469	59.992	25.175	× 1.25 (H)	800 × 600
640×480	35.000	66.670	30.240	× 1.25 (1) × 1.25 (V)	800 × 600
640×480	37.861	72.810	31.500	~ 1.25 (V)	800 × 600
720×400 ^{*1}	31.469	70.000	28.320	× 1.0 (H) × 1.5 (V)	720 × 600
800×600	35.156	56.250	36.000	× 1.0	800 × 600
800×600	37.879	60.317	40.000	~ 1.0	800 × 600

*1 When you use this resolution, select "720 x 400 Display Resolution 720 x 400 DSP" in "System Setting" of the OSD (On Screen Display).

Pin No.	Signal Name	Pin No.	Signal Name	Pin Location
1	TMDS DATA2-	13	NC	
2	TMDS DATA2+	14	NC	
3	TMDS DATA2/4 SHIELD	15	GND (+5V)	
4	NC	16	Hot Plug Detect	17
5	NC	17	TMDS DATA0-	
6	DDC Clock	18	TMDS DATA0+	
7	DDC Data	19	TMDS DATA0/5 SHIELD	24
8	NC	20	NC	
9	TMDS DATA1-	21	NC	
10	TMDS DATA1+	22	TMDS CLOCK SHIELD	
11	TMDS DATA1/3 SHIELD	23	TMDS CLOCK+	
12	NC	24	TMDS CLOCK-	

•DVI-D Pin Assignments and Signal Names

Connector: DVI-D 24-pin male

Connector set screw: Inch type (4-40)

DVI-D Cable: FP-DV01-50 <5m> (Manufactured by Digital Electronics Corporation of Japan)



If a cable other than the specified DVI-D cable is used, FP unit operation cannot be guaranteed due to the possibility of noise interference.

RS-232C Interface

RS-232C Interface	Baud rate: 9600 bps
	Data length: 8 bits
	Parity: none
	Stop bit: 1

• RS-232C (Serial) Interface Pin Assignments and Signal Names

Pin No.	Signal Name	Condition	Pin Location
1	CD	Carrier Detect *1	
2	RD	Receive Data (FP→Host)	\bigcirc
3	SD	Send Data (FP←Host)	
4	DTR	Data Terminal Ready *1	6 0 1
5	GND	Ground	0 0
6	DSR	Data Set Ready *1	9
7	RS	Request to Send (FP←Host)	5 5 5
8	CS	Clear to Send (FP \rightarrow Host)	
9	NC	(Used internally)	

*1 The FP unit's CD, DTR, and DSR lines are connected internally.

Connector:	Dsub 9 pin female
Connector set screw :	Inch type (4-40)
RS-232C Cable :	FP61V-IS00-O
	(Manufactured by Digital Electronics Corporation of Japan)

Signal Names

Signal names used for FP unit RS-232C interfaces are designed to match the pin order used on most PC serial connectors, which allows a straight cable to be used to connect the two. Therefore, connect each FP connector pin's signal to the same signal signal on the PC side. For example, the FP unit connector's pin #2 'RD' should be connected to the PC connector's 'RD' terminal. Refer to the FP-2500/FP-2600 Series User Manual's "Cable Diagrams" section for detailed signal direction information.



If a cable other than the specified RS-232C cable is used, FP unit operation *Important* cannot be guaranteed due to the possibility of noise interference.

USB Interface

♦ Pin Assignments and Signal Names for USB Interface

Pin No.	Signal Name	Condition	Pin Location
1	USB1-5V	+5V IN	2 1
2	USBD1(-)	USB data(-)	
3	USBD1(+)	USB data(+)	
4	GND	Ground	3 4

Communication: Connector: USB Cable: Low speed Device B type connector FP-US00 (Manufactured by Digital Electronics Corporation of Japan)



If a cable other than the specified USB cable is used, FP unit operation cannot be guaranteed due to the possibility of noise interference.

5 Installation

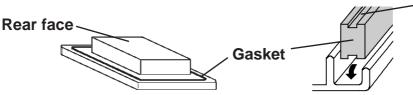
Confirm the Installation Gasket's Positioning

It is strongly recommended that you use the gasket, since it absorbs vibration in addition to repelling water.

Place the FP on a level surface with the display panel facing downward. Check that the FP unit's installation gasket is seated securely into the gasket's groove, which runs around the perimeter of the panel's frame.

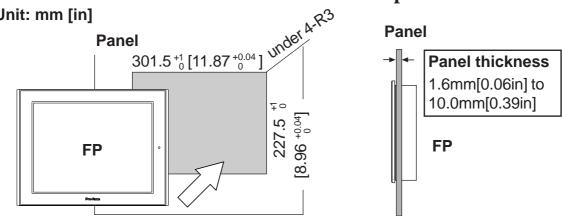


- Before installing the FP into a cabinet or panel, check that the installation gasket is securely attached to the unit.
- A gasket which has been used for a long period of time may have scratches or dirt on it, and could have lost much of its dust and drip resistance. Be sure to change the gasket periodically or when scratches or dirt become visible.
- Be sure to use gasket model GP570-WP10-MS.
- Be sure the gasket's seam is not inserted into any of the unit's corners, only in the straight sections of the groove. Inserting it into a corner may lead to its eventually tearing.
- To ensure the installation gasket's maximum level of moisture resistance, be sure the gasket's seam is inserted as shown into the panel's bottom face.



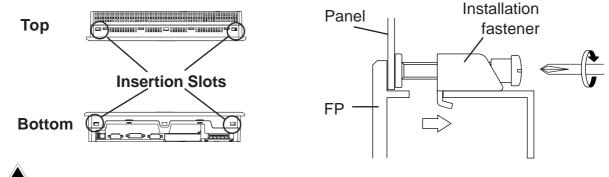
 The grooved sides are vertical.

Create a Panel Cut and insert the FP into the panel from the front Unit: mm [in]



Attach the Installation Fasteners from Inside the Panel

The following figures show the four (4) fastener insertion slot locations. Insert each fastener's hook into the slot. Tighten the screws in a diagonal pattern, and slowly increase the torque.



• Tightening the screws with too much force can damage the FP unit's case. Important • The necessary torque is 0.5N•m.



- Depending on the installation panel's thickness, etc., the number of installation fasteners used may need to be increased provide the desired level of moisture resistance.
- Installation fastener model number : GP070-AT01.

6 Wiring

WARNINGS

- To avoid an electric shock, when connecting the FP unit's power cord terminals to the power terminal block, confirm that the power supply is completely turned OFF, via a breaker, or similar unit.
- FP2500-T42-24V/FP2600-T42-24V units are designed to use only DC24V input. Any other power level can damage both the FP and the power supply.
- Since there is no power switch on the FP unit, be sure to attach a breaker-type switch to its power cord.



When the FG terminal is connected, be sure the wire is grounded. Not grounding the FP unit will result in excess noise and vibration.

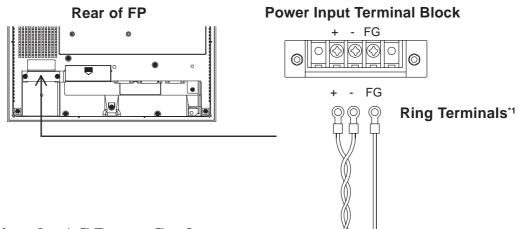
Over \phi3.2mm(0.13in)



- Wherever possible, use thick wires (max.2mm²) for power terminals, and twist the wire ends before attaching the ring terminals.
- Be sure to use the following size ring terminals.^{*1}

Under 6.0mm(0.24in)

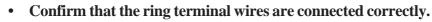
To avoid a short caused by loose ring terminals, be sure to use ring terminals with an insulating sleeve.



Connecting the AC Power Cord

When connecting the power cord, be sure to follow the procedures given below.

- 1. Confirm that the FP unit's Power Cord is unplugged from the power supply.
- 2. Use a screwdriver to remove the Power Input Terminal Block's clear plastic cover.
- 3. Unscrew the screws from the middle three (3) terminals, align the Ring Terminals and reattach the screws.



Note: The torque required to tighten these screws is 0.5 to 0.6 N·m.

4. Replace the Power Input Terminal Block's clear plastic cover.

7 Power Supply Cautions

Power Supply Cautions

Please pay special attention to the following instructions when connecting the power cord terminals to the FP unit.

- If the power supply voltage exceeds the FP unit's specified range, connect a voltage transformer.
- Between the line and the ground, be sure to use a low noise power supply. If there is still an excessive amount of noise, connect a noise reducing transformer.
- Input and Output signal lines must be separated from the power control cables for operational circuits.
- The FP unit's power supply cord should not be bundled with or kept close to main circuit lines (high voltage, high current), or input/output signal lines.
- Connect a surge absorber to handle power surges.
- To reduce noise, make the power cord as short as possible.

Grounding Cautions

• When attaching a wire to the FP unit's rear face FG terminal, (on the AC Connector), be sure to create an exclusive ground.^{*1}

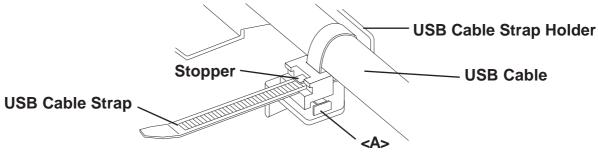
■Input / Output Signal Line Cautions

• All FP Input and Output signal lines must be separated from all operating circuit (power) cables. If this is not possible, use a shielded cable and ground the shield.

8 Using the USB Cable Strap

USB Cable Strap Attachment Procedure

- 1) Insert the USB cable into the USB connector.
- 2) Tighten the strap until the cable is secured in place and insert the cable strap into the cable strap holder as shown in the following figure.



USB Cable Strap Removal

- 1) Push in the cable strap's stopper with a standard flat-blade screwdriver until the cable strap band unlocks, and remove the strap.
- 2) Disconnect the USB cable.



If the stopper will not move, press on <A> (shown in figure) to free the strap from the strap holder.

^{*1} Use a grounding resistance of 100Ω , a wire of $2mm^2$ or thicker, or your country's applicable standard.

9 Screen Display Adjustment

OSD Features

Use the FP unit's touch panel and the OSD (On Screen Display) menu to set the FP screen settings, and fine-tune your screen's display. You can enter these settings even while the FP si operating.

The following table explains each OSD setting item and its function.

Main Menu				
MAIN	MEN	U V	***	
	Ņ.	œ	⊕	
	\sum	DIM	AGC	
J	RST	D Save	S P ESC	"V*

C	" V	*	**'	:	OSD	version.
---	------------	---	-----	---	-----	----------

ltem		Function		
	CONTRAST	Adjusts the contrast.	$(Analog RGB only)^{*1}$	
Ŭ.	BLACK LEVEL	Adjusts the color brightness.	(Analog RGB only) ^{*1}	
œ	H-POS	Adjusts the horizontal position of the screen.		
Ð	V-POS	Adjusts the vertical position of the screen.		
	H-SIZE	Adjusts the screen size in the horizontal direction. (Analog RGB only) *1		
Adjusts the input signal and the dot clock position.		ition. (32 levels)		
	PHASE	(Analog RGB d		
DIM	BACKLIGHT	Adjusts the backlight brightness. (9 levels)		
A C C AUTO GAIN CONTROL Automatically adjusts the contrast and the bright		ghtness.		
AGC		L (Analog RGB		
DSP	DISPLAYMODE	Displays the resolution of the input image data.		
RST	OSD CLEAR (RESET)	Resets the current OSD value to the default value.		
SAVE	OSD SAVE	Save the current value and quit the OSD.		
	SYSTEM	Changes settings such as activating the click sound.		
ESC	ESCAPE	Cancels the setting and returns to the upper I	evel. In the main menu,	
LOU		this command closes the OSD.		

*1 When using DVI-D, the message "DO NOT NEED SETUP FOR DVI-D" is displayed and no settings are required.

Starting the OSD

To start the OSD and enter OSD mode, touch the touch panel's corners in the following order : (1) upper left (2) upper right (3) lower right, all within 5 seconds. In OSD mode, the setting screen will appear in the center of the screen. Until OSD setup is completed the touch panel cannot be used to export data to external devices.

Note: • The OSD is not displayed when SW1-2 is set to ON.

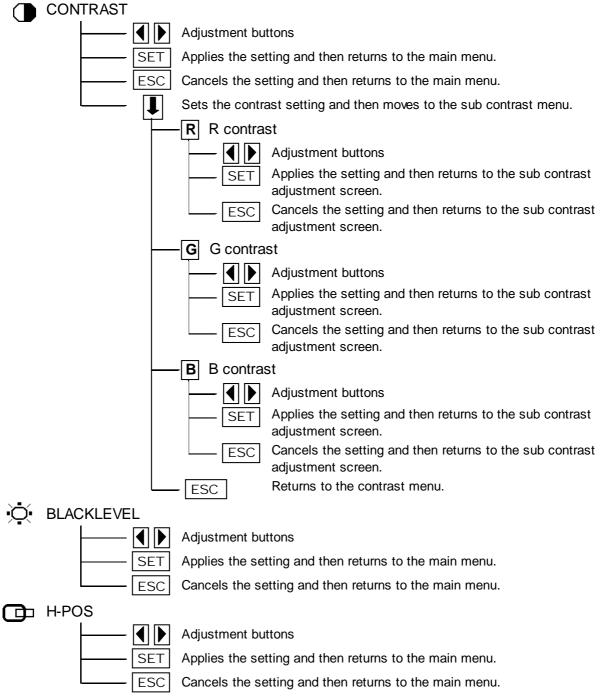
Using the OSD

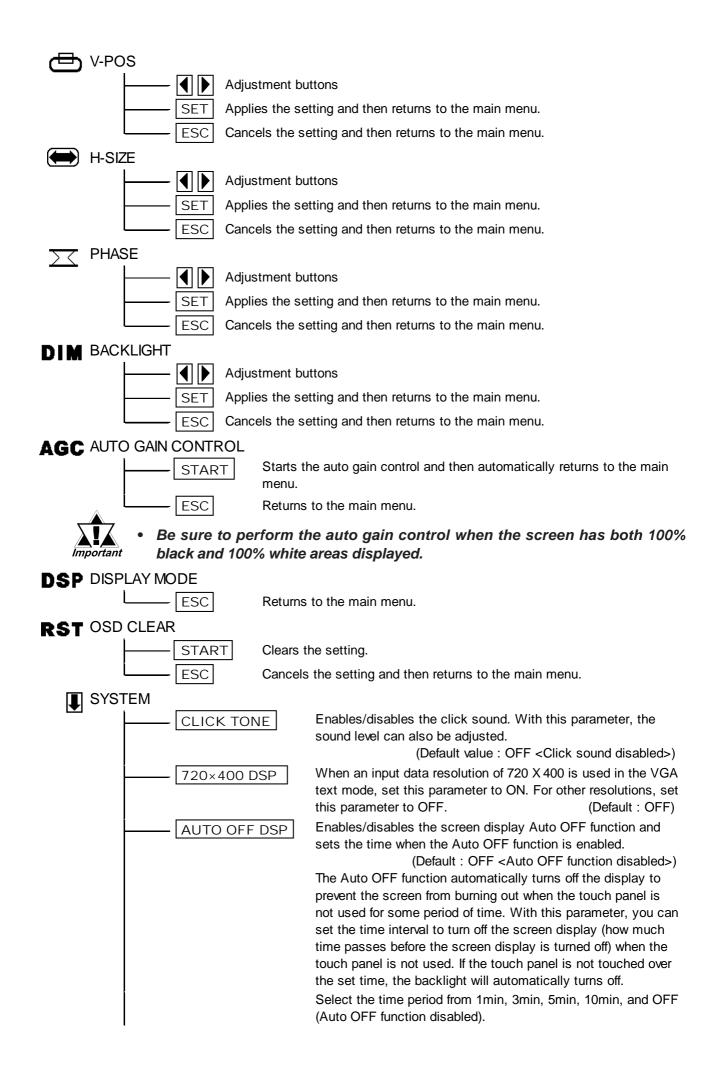
Icons on the screen are used to operate the OSD. When you start up the OSD, the main menu appears. Touching the icon of the item you want to adjust displays its submenu or setting change screen. In the setting change screen, \blacksquare and \textcircled icons are used to change the setting. To apply the setting, press the \boxed{SET} button. Press the \boxed{SAVE} button to save the defined settings.

Quitting the OSD

To quit the OSD, press the **ESC** button in the main menu or level the OSD as it is for at least 30 seconds. If the OSD is automatically closed after 30 seconds of inactivity, the values set before the OSD was closed will be applied.

OSD Menu and Operation Tree







SET

Enables/disables the Backlight burnout detect function.

(Default : ON)

When a burned-out backlight is detected, the status LED flashes alternately green and red, or a steady orange. Touch-operation will be disabled when the backlight burns out, which prevents the FP from sending input signals to the PLC.



Normally, the FP unit detects a backlight burnout by monitoring the backlight's current flow, however, the FP may fail to detect this condition, depending on the type of backlight problem.

Applies the setting and returns to the main menu.

ESC Cancels the setting and returns to the main menu.

Note: In the system setting screen, touching the value displayed on the panel changes the value of the time period.



Saves all the adjusted settings in the EEPROM.

• In the OSD, pressing the SET button applies the set value and enables the setting. The set value won't be canceled unless the power is turned OFF or the value is reset.

If the power is turned OFF without saving the set value, that data will disappear. The last saved data will be read into the system when the FP starts. To enable the changed value, be sure to press the SAVE button.

 When the OSD automatically closes after 30 seconds of inactivity, the set value that you were modifying at the time will be retained. If you quit the OSD with the ESC button, the value that you were modifying will be not be retained and the previously set value will be used.

10 Replacing the Backlight

The FP unit's backlight is user replacable.

For an explanation of how to replace the FP unit's backlight, please refer to the FP-2500/FP-2600 Series User Manual or the backlight's Installation Guide.

Corresponding Replacement Backlight Model Numbers

FP Model No.	Backlight Model No.
FP2500-T42-24V	GP577RT-BL00-MS
FP2600-T42-24V	PS600-BU00



Use of a different model backlight may cause a FP malfunction or breakdown.

Notice

Please be aware that Digital Electronics Corporation shall not be held liable by the user for any damages, losses, or third party claims arising from the uses of this product.

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