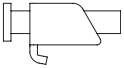
PS-3710A Series Installation Guide

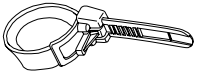
Caution
Be sure to read the “Warning/Caution Information” on the attached sheet before using the product.

Package Contents

(1) PS-A Unit (1)
(2) Installation Guide <This Guide>
(3) Warning/Caution Information (1)
(4) Installation Gasket (1) (attached to the PS-A unit)
(5) Installation Fasteners (Set of 4 x 2)



(6) USB Cable Clamp (2 ports) (2)



(7) Power Connector (1)

IMPORTANT

- Be careful when installing the PS-A not to damage the built-in HDD.

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

When you order a PS-A unit built to your specifications, that PS-A package should include each optional item's Installation Guide. Please use that guide to check the contents of each optional item's package.

About the Manual

For the detailed information on PS-A series, refer to the following manuals.

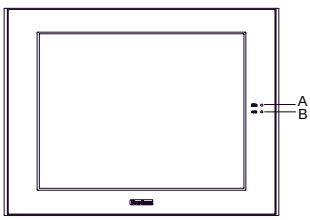
- PS-3710A Series Hardware Manual
- PS-3710A Series Reference Manual
- API Reference Manual
  Manual can be downloaded from Pro-face Home Page.

  URL
  http://www.pro-face.com/otasuke/

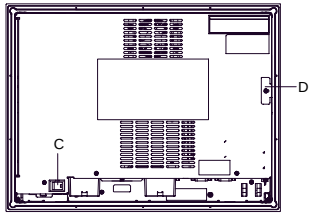
NOTE

- The drivers and utilities for PS-A can be downloaded from Pro-face Home Page.

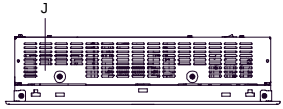
Part Names and Functions



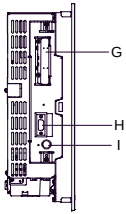
Front



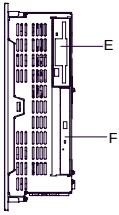
Rear



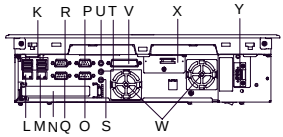
Top



Left Side



Right Side



Bottom

	Name	Description
A	Power LED / RAS Status Lamp (POWER)	LED: Green (lit) — PS-A Status: Normal Operation (power is on) LED: Green (blinking) — PS-A Status: Soft OFF state LED: Orange (lit) — PS-A Status: System Monitor Error, Touch Panel Self Test Error LED: Orange/Red (blinking) — PS-A Status: Backlight burnout is detected LED: Not lit — PS-A Status: Power is OFF
B	IDE Access Lamp	LED: Green (lit) — PS-A Status: Currently using IDE I/F
C	Power Switch	—

<table>
<tr><td>D</td><td>Expansion Board Support</td><td>—</td></tr>
<tr><td>E</td><td>FD Drive</td><td>—</td></tr>
<tr><td>F</td><td>DVD Drive</td><td>—</td></tr>
<tr><td>G</td><td>PCMCIA Interface (PCMCIA)</td><td>2 ports. PCMCIA Type II, Type III can be available.</td></tr>
<tr><td>H</td><td>Analog RGB Interface</td><td>A mini Dsub 15 pin (plug) is used to connect a RGB monitor on the market or FP Series unit manufactured by Pro-face.</td></tr>
<tr><td>I</td><td>PS/2 Keyboard Interface (KEYBOARD)</td><td>A mini DIN 6 pin (socket) is used.</td></tr>
<tr><td>J</td><td>Rear Cover</td><td>—</td></tr>
<tr><td>K</td><td>USB Interface (USB)</td><td>4 ports. Complies with USB 2.0. Uses a “TYPE-A” connector.<table><tr><td>Power supply voltage</td><td>5 VDC ±5%</td></tr><tr><td>Output current</td><td>500mA (max.)</td></tr><tr><td>The maximum communication distance</td><td>5m</td></tr></table></td></tr>
<tr><td>L</td><td>Ethernet Interface (LAN1)</td><td>10BASE-T/100BASE-TX Auto Changeover.
This interface uses an RJ-45 type modular jack connector (8 pins).</td></tr>
<tr><td>M</td><td>Ethernet Interface (LAN2)</td><td>10BASE-T/100BASE-TX/1000BASE-T Auto Changeover.
This interface uses an RJ-45 type modular jack connector (8 pins).</td></tr>
<tr><td>N</td><td>Expansion unit Interface</td><td>1 port. Used to attach the PCI Unit.</td></tr>
<tr><td>O</td><td>Serial Interface (COM1)</td><td>Dsub 9-pin plug type. RS-232C, RI/+5V Changeover.</td></tr>
<tr><td>P</td><td>Serial Interface (COM2)</td><td>Dsub 9-pin plug type. RS-232C, RI/+5V Changeover.</td></tr>
<tr><td>Q</td><td>Serial Interface (COM3)</td><td>Dsub 9-pin plug type. RS-232C, RS-422, RS-485 Changeover.</td></tr>
<tr><td>R</td><td>Serial Interface (COM4)</td><td>Dsub 9-pin plug type. RS-232C.
Changes the Touch Panel communication method. (Serial <---> USB)</td></tr>
<tr><td>S</td><td>Line Input Interface (LINE IN)</td><td rowspan="3">3 ports. (standard type AUDIO jack)</td></tr>
<tr><td>T</td><td>Speaker Output Interface (SPEAKER OUT)</td></tr>
<tr><td>U</td><td>Mike Input Interface (MIC IN)</td></tr>
<tr><td>V</td><td>RAS Interface (RAS)</td><td>D-sub 25-pin plug type.</td></tr>
<tr><td>W</td><td>Cooling FAN</td><td>—</td></tr>
<tr><td>X</td><td>CF Card Interface Cover</td><td>CF card interface is under the cover. Type II-compliant slot. IDE-type connection.*1
CF card (Type I/II-compliant) is available.</td></tr>
<tr><td>Y</td><td>Power Connector</td><td>—</td></tr>
</table>

*1 Since an IDE-type connection is used, the unit is not hot-swappable. When inserting/removing the CF card, be sure that power is turned OFF.

IMPORTANT

- When attaching peripheral units to the PS-A, be sure the PS-A's power cord is disconnected from the main power supply.

General Specifications

■ Electrical Specifications

Power Supply	Input Voltage	AC100/240V
	Rated Voltage	AC85 to 265V
	Rated Frequency	50/60Hz
	Allowable Voltage Drop	1 cycle or less (Voltage drop interval must be 1s or more.)
	Power Consumption	150VA or less
Voltage Endurance		AC1500V 20mA for 1minute (between charging and FG terminals)
Insulation Resistance		DC500V 10MΩ (min.) (between charging and FG terminals)

■ Environmental Specifications

Physical	Surrounding Air Temperature	0 to 50°C :without HDD 5 to 50°C :with HDD
	Storage Temperature	-20 to +60°C
	Ambient Humidity	10 to 90% RH (Not condensing, wet bulb temperature: 29°C or less.)
	Storage Humidity	10 to 90% RH (Not condensing, wet bulb temperature: 29°C or less.)
	Dust	Free of dust
	Pollution Degree	For use in Pollution Degree 2 environment

IMPORTANT

- When using any of the PS-A's optional devices, be sure to check that device's specifications for any special conditions or cautions that may apply to its use.
- Be aware that not only does the Hard Disk have a fixed lifetime, but that accidents can always occur. Therefore, be sure to back up your Hard Disk's data regularly, or prepare another Hard Disk unit that can be used for backup.
- The Hard Disk lifetime given here may be reduced due to unforeseen environmental factors, however, generally speaking, the disk should last for 20,000 hours (of operation) or approximately 5 years, whichever comes first at an operating temperature of 20°C and 333 hours of operation per month. (HDD access frequency of 20% or less)
- Using the Hard Disk in an environment that is excessively hot and/or humid will shorten the disk's usage lifetime. A wet bulb temperature of 29°C or less is recommended. This is equivalent to the following data.

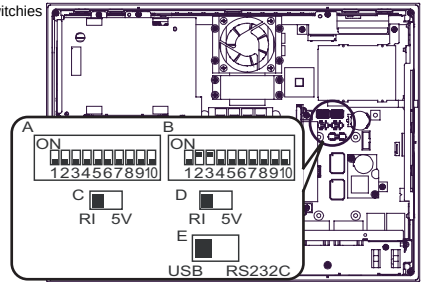
Temperature	at 35°C	at 40°C
Humidity	no higher than 64% RH	no higher than 44% RH

- In order to extend the lifetime of the hard disk, Pro-face recommends you set the Windows® 2000's [Control panel]-[Power Management option]-[Turn off hard disks] selection or the Windows® XP's [Control panel]-[Performance and Maintenance]-[Power Management option]-[Turn off hard disks] selection to turn the hard disk off when the unit is not being operated. A setting of 5 minutes is recommended.

Switches

The following switch settings corresponding to Serial Interfaces and some system features need to be signified. To set the switches which are on the PS-A's circuit board, remove the PS-A's Rear Cover. Please refer to "Installations", "3.Removal/Attachment the Rear Cover".

The location of the switchies



Inside of the rear

Switch Location	Switch Name	Compatible I/F	Factory Settings	Description
A	Serial Mode Select SW	COM3	All OFF (RS-232C)	10-point dip switch. Designates COM3 communication settings. For Serial Mode Select SW details, see Table (2).
B	System Set SW	-	See Table (1)	10-point dip switch. For System Set SW and the factory settings details, see Table (1).
C	RI/+5V Changeover SW	COM1	RI	Changes # 9 pin (RI <---> +5V).
D	RI/+5V Changeover SW	COM2	RI	Changes # 9 pin (RI <---> +5V).
E	Touch Panel's Communication Changeover SW	COM4 USB	USB	Changes the Touch Panel communication method. (Serial <---> USB) (If "Serial" is selected, COM4 cannot be used.)

Switch No.	Description	ON	OFF	Factory Settings	Notes
1	Cancellation function of pushing two points on the touch panel[*1].	Enabled	Disabled	OFF	The middle point is not considered to be touched when the SW is ON. It is considered to be touched when the SW is OFF.
2	Changes PIO/DMA of CF card.	PIO+DMA	PIO	ON	
3	Changes PIO/DMA of CF card.	PIO+DMA	PIO	ON	
4	Used for the system.	Reserved	Reserved	OFF	
5	Able to change a Master/Slave setting for CF card slot.	Master	Slave	OFF	
6	Used for the system.	Reserved	Reserved	OFF	
7	Used for the system.	Reserved	Reserved	OFF	
8	Used for the system.	Reserved	Reserved	OFF	
9	Implements the logical inversion operation for RAS output.	Normal Close	Normal Open	OFF	RAS output is a CLOSE state when the SW and the system is ON. When the SW is OFF, it is the opposite. The RAS Output keeps Normal OPEN when the Soft OFF[*2] state occurs or the power turns OFF.
10	Used for the system.	Reserved	Reserved	OFF	

Table 1) System Set Switch

*1 When two points are pushed, it is considered that middle point between the two points is touched according to the nature of the analog resistive touch panel.
When the switch, etc. is set on the middle point, it will be enabled and may operate.
To prevent such a switch from malfunction in case of pushing two points, turn ON the SW No.1 in advance, then the middle point will be disabled to be touched.

*2 The Soft OFF refers to the state that Windows® has been shut down and the power is provided only for the electric circuit to boot system. This Soft OFF State is different from what is System Standby set by Windows®.

Switch No.	Description	ON	OFF	RS-232C	RS-422	RS-485
1	Used by the system.	No Connection	No Connection	OFF[*1]	OFF[*1]	OFF[*1]
2	Changes COM3's communication method	RS-422/RS-485	RS-232C	OFF	ON	ON
3	Changes COM3's communication method	RS-422/RS-485	RS-232C	OFF	ON	ON

Switch No.	Description	ON	OFF	RS-232C	RS-422	RS-485
4	Changes TX data's output mode	TX data output is controlled via the RTS signal.	TX data output is NOT controlled via the RTS signal. (normally output)	OFF	ON/ OFF	ON/ OFF*3
5	Switches the TX termination resistance ON/OFF	Inserts termination resistance of 220Ω between TXA and TXB.	No termination	OFF	ON	ON/ OFF*2
6	Switches the RX termination resistance ON/OFF	Inserts termination resistance of 220Ω between RXA and RXB.	No termination	OFF	ON	ON/ OFF*2
7	Switches the shorting of TXA and RXA ON or OFF	Shorts TXA and RXA (RS-485 mode)	No shorting (RS-422 mode)	OFF	OFF	ON
8	Switches the shorting of TXB and RXB ON or OFF	Shorts TXB and RXB (RS-485 mode)	No shorting (RS-422 mode)	OFF	OFF	ON
9	RTS Automatic control mode (enabled only when RS-485 mode)	The data is automatically controlled via the RTS signal.	The data is not automatically controlled via the RTS signal.	OFF	OFF	ON/ OFF*3
10				OFF	OFF	ON/ OFF*3

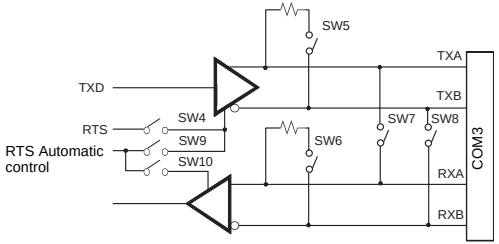
Table 2) Serial Mode Select Switch

*1 Be sure to keep the settings, "OFF".

*2 If you use the termination resistance, base your settings on the connection specifications.

*3 To control TX output driver via RTS automatically, set ON. Be sure to set SW No.4 OFF.
Not to control TX output driver via RTS automatically, set OFF. Be sure to set SW No.4 ON.

Serial Mode Select Switches (SW4 to SW10) operate as shown in the circuit diagram below.



External Interfaces

IMPORTANT

- This PS-A unit's serial port is not isolated. When the host (PLC) unit is also not isolated, and to reduce the risk of damaging the RS-232C/RS-422/RS-485 circuit, be sure to connect the #5 SG (Signal Ground) terminal.

■ Serial Interface (COM1, COM2, COM3, COM4)

Interfit Bracket	#4-40 (Inch screw thread)

◆COM1, COM2, COM4

Pin #	RS-232C	
	Signal Name	Meaning
1	CD	Carrier Detect
2	RD(RXD)	Receive Data
3	SD(TXD)	Send Data
4	ER(DTR)	Data Terminal Ready
5	GND	Signal Ground
6	DR(DSR)	Data Set Ready
7	RS(RTS)	Request to Send
8	CS(CTS)	Clear to Send
9	CI(RI)/ +5V*1	Called status display (Fixed "RI" for COM4)/ +5V Output (Switching available)
FG	FG	Frame Ground (Common with SG)

*1 To change the RI/+5V setting of #9 pin, open the PS-A unit's rear cover and set slide switch to the desired position.
Please refer to "Switches" for details.

◆COM3

COM3 can be changed to either RS-232C, RS-422 or RS-485. (The factory setting is RS-232C.) To change this setting, open the PS-A unit's rear cover and set slide switch on the circuit board to the desired position. Please refer to "Switches" for details.

Pin #	RS-232C	
	Signal Name	Meaning
1	CD	Carrier Detect
2	RD(RXD)	Receive Data
3	SD(TXD)	Send Data
4	ER(DTR)	Data Terminal Ready
5	GND	Signal Ground
6	DR(DSR)	Data Set Ready
7	RS(RTS)	Request to Send
8	CS(CTS)	Clear to Send
9	CI(RI)	Called status display
FG	FG	Frame Ground (Common with SG)

Pin #	RS-422	
	Signal Name	Meaning
1	RDA	Receive Data A (+)
2	RDB	Receive Data B (-)
3	SDA	Send Data A (+)
4	NC	No Connection
5	GND	Signal Ground
6	NC	No Connection
7	SDB	Send Data B (-)
8	NC	No Connection

Pin #	RS-422	
	Signal Name	Meaning
9	NC	No Connection
FG	FG	Frame Ground (Common with SG)

Pin #	RS-485	
	Signal Name	Meaning
1	DATA +	Send/Receive Data(+)
2	DATA -	Send/Receive Data(-)
3	NC	No Connection
4	NC	No Connection
5	GND	Signal Ground
6	NC	No Connection
7	NC	No Connection
8	NC	No Connection
9	NC	No Connection
FG	FG	Frame Ground (Common with SG)

IMPORTANT

- Do not connect any pins to COM3 [NC].
- Be sure to connect pin number 5 (GND) of COM1, COM2, COM3, and COM4 (RS-232C) to the host unit's Signal Ground terminal.
- Be sure to confirm what settings will be used by the other device and set the slide switches accordingly. Failure to do so can result in a unit malfunction or damage.
- Whenever changing the PS-A switches, be sure to first turn the PS-A's power supply OFF. Failure to do so can cause a PS-A malfunction.
- Connect the FG terminal line to the shell.
- FG and SG terminals are internally connected in the PS-A. When connecting to another device, be sure not to create an SG shorting loop in your system.

■ RAS Interface

IMPORTANT

- Be sure to use only the rated voltage level when using the No. 2, 15 [+5V] and No.3 [+12V] for external power output. Failure to do so can lead to a unit malfunction or accident.

Interfit Bracket	#4-40(Inch screw thread)

Pin #	Signal Name	Meaning
1	GND	Ground
2	+5V	Output Current:100mA or less (with a total of 2 pin and 15 pin) Output Voltage: 5V±5%
3	+12V	Output Current: 100mA or less Output Voltage: 12V±5%
4	NC	—
5	RST(+)	Reset in(+)
6	DIN0(+)	Data in 0(+)
7	DOUT2(-) (UPS Shutdown(-))	Data out 2(-) (UPS Shutdown(-))
8	DOUT2(+) (UPS Shutdown(+))	Data out 2(+) (UPS Shutdown(+))
9	DOUT0(-)	Data out 0(-)
10	DOUT0(+)	Data out 0(+)
11	RST(-)	Reset in(-)
12	DIN0(-)	Data in 0(-)
13	DIN1(+)	Data in 1(+)
14	GND	Ground
15	+5V	Output Current:100mA or less (with a total of 2 pin and 15 pin) Output Voltage: 5V±5%
16	DIN2(+)	Data in 2(+)
17	DIN2(-)	Data in 2(-)

Pin #	Signal Name	Meaning
18	DIN3(+)	Data in 3(+)
19	DOUT1(-)	Data out 1(-)
20	DOUT1(+)	Data out 1(+)
21	DOUT3(-)	Data out 3(-)
22	DOUT3(+)	Data out 3(+)
23	DIN3(-)	Data in 3(-)
24	DIN1(-)	Data in 1(-)
25	NC	—

NOTE

- For the circuit diagram, refer to "PS-3710A Series Reference Manual".

■ Analog RGB Interface

Interfit Bracket	#4-40(Inch screw thread)

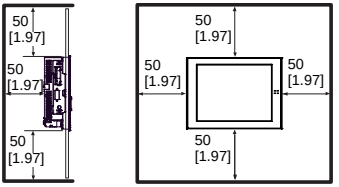
Pin #	Signal Name	Meaning
1	Analog R	R signal input
2	Analog G	G signal input
3	Analog B	B signal input
4	Digital grounding	Digital signal GND
5	Digital grounding	Digital signal GND
6	Return R	R signal GND
7	Return G	G signal GND
8	Return B	B signal GND
9	Reserved	NC (spare for input)
10	Reserved	NC (spare for input)
11	Reserved	NC (spare for input)
12	DDC DATA	DDC Data
13	H. SYNC	Horizontal synchronous signal input
14	V. SYNC	Vertical synchronous signal input
15	DDC CLK	DDC Clock

Installations

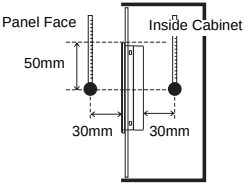
1. Installation Requirements

- For easier maintenance, operation, and improved ventilation, be sure to install the PS-A at least 50mm [1.97 in.] away from adjacent structures and other equipment.

Unit: mm[in.]



- Be sure that the surrounding air temperature and the ambient humidity are within their designated ranges. (Surrounding air temperature: with HDD 5 to 50°C without HDD 0 to 50°C, Ambient humidity: 10 to 90%RH, Wet bulb temperature: 29°C or less)
  When installing the PS-A on the panel of a cabinet or enclosure, "Surrounding air temperature" indicates both the panel face and cabinet or enclosure's internal temperature.

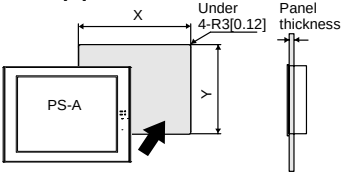


- Be sure that heat from surrounding equipment does not cause the PS-A to exceed its standard operating temperature.

2. PS-A Installation

(1) Create a Panel Cut following the dimensions in the table below.

Unit: mm[in.]



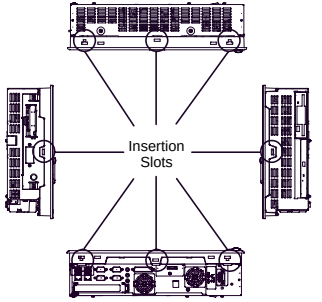
PS-A	X	Y	Panel thickness
PS-3710A-T41-PA1	386.1 $^{+1}_{-0}$ [15.20 $^{+0.04}_{-0}$]	284.5 $^{+1}_{-0}$ [11.20 $^{+0.04}_{-0}$]	1.6[0.06] to 10.0[0.39]

(2) Confirm that the installation gasket is attached to the PS-A unit and then place the PS-A unit into the Panel from the front.

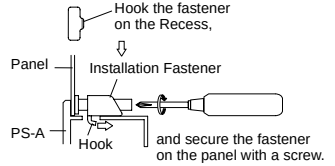
IMPORTANT

- It is strongly recommended that you use the installation gasket, since it absorbs vibration in addition to repelling water.
  For the procedure for replacing the installation gasket, refer to “PS-3710A Series Hardware Manual”.

(3) Insert each fastener’s hook into the slot and tighten it with a screwdriver. Insert the installation fasteners securely into the insertion slot recess. There are eight insertion slots.



Insertion Slot Recess



IMPORTANT

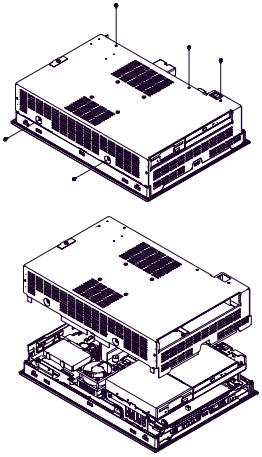
- Tightening the screws with too much force can damage the PS-A unit.
- The necessary torque is 0.5N•m.
- Be sure to insert installation fasteners in the recessed portion of an installation fasteners hole. If the fasteners are not correctly attached, the PS-A unit may shift or fall out of the panel.

3. Removal/Attachment the Rear Cover

IMPORTANT

- Use a screwdriver to loosen or tighten the screws. Be sure not to tighten screws too tightly, since it may damage the unit.
- Be careful when removing or inserting any screws that they do not fall inside the PS-A.

Unscrew the five (5) attachment screws used to hold the Rear Cover in place, and remove the Rear Cover. The torque of the rear cover required for these screws is 0.5 to 0.6 N•m.



Wiring

⚠ WARNING

- To avoid an electric shock, prior to connecting the PS-A unit's power cord terminals to the power terminal block, confirm that the PS-A unit's power supply is completely turned OFF, via a breaker, or similar unit.
- Any other power level can damage both the PS-A and the power supply.
- When the FG terminal is connected, be sure the wire is grounded.

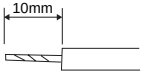
1. Wiring the AC type power supply cable

IMPORTANT

- When the FG terminal is connected, be sure the wire is grounded. Not grounding the PS-A unit will result in excessive noise. Use your country's applicable standard for grounding.

■ Power Cord Specifications

Use copper conductors only.

Power Cord Diameter	0.75 to 2.5mm^2 [0.0009 to 0.0097inch^2] (18 to 12 AWG)
Conductor Type	Simple or Stranded Wire*1
Conductor Length	

*1 If the Conductor's end (individual) wires are not twisted correctly, the end wires may either short against each other, or against an electrode.

■ Wiring

NOTE

- The power connector (plug) is FKC 2.5/3-STF-5.08 made by Phoenix Contact.

When connecting the power cord, use the following items when performing wiring. (Items are made by Phoenix Contact.)

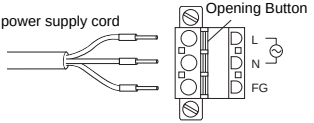
Recommended Driver	SZS 0.6x3.5 (1205053)
Recommended Pin Terminals	AI 0.75-10GY (3201288) AI 1-10RD (3200182) AI 1.5-10BK (3200195) AI 2.5-12BU (3200962)
Recommended Pin Terminal Crimp Tool	CRIMPFOX ZA3 (1201882)

■ Connecting the Power Cord

(1) Confirm that the power is not supplied to the PS-A unit.

(2) Push the Opening button by a small and flat screw driver to open the desired pin hole.

(3) Insert each pin terminal into its each hole. Release the Opening button to clamp the pin place.



(4) After inserting all three pins, insert the Power Plug into the Power Connector at PS-A. Fix the plug with two (2) minus screws.

IMPORTANT

- Confirm that all wires are connected correctly.
- The torque required to tighten these screws is 0.5 to 0.6N•m.
- To prevent the possibility of a terminal short, use a pin terminal that has an insulating sleeve.

2. Power Supply Cautions

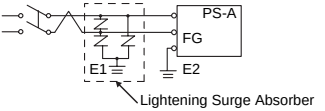
- Input and Output signal lines must be separated from the power control cables for operational circuits.
- To improve the noise resistance, be sure to twist the ends of the power cord wires before connecting them to the Power connector (Plug).
- The PS-A unit's power supply cord should not be bundled with or kept close to main circuit lines (high voltage, high current), or input/output signal lines.
- To reduce noise, make the power cord as short as possible.
- If the supplied voltage exceeds the PS-A unit's range, connect a voltage transformer.
- Between the line and the ground, be sure to use a low noise power supply. If there is an excess amount of noise, connect a noise reducing transformer.
- The temperature rating of field installed conductors: 75°C only.

IMPORTANT

- Use voltage and noise reducing transformers with capacities exceeding Power Consumption value.
- Connect a surge absorber to handle power surges.

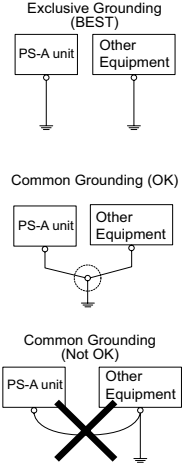
IMPORTANT

- Be sure to ground the surge absorber (E1) separately from the PS-A unit (E2). Select a surge absorber that has a maximum circuit voltage greater than that of the peak voltage of the power supply.



3. Grounding Cautions

- Be sure to create an exclusive ground for the Power Cord's FG terminal. Use a grounding resistance of 100Ω, a wire of $2mm^2$ or thicker, or your country's applicable standard.
- The SG (signal ground) and FG (frame ground) terminals are connected internally in the PS-A unit.
  When connecting the SG line to another device, be sure that the design of the system/connection does not produce a shorting loop.
- The grounding wire should have a cross sectional area greater than $2mm^2$. Create the connection point as close to the PS-A unit as possible, and make the wire as short, as possible. When using a long grounding wire, replace the thin wire with a thicker wire, and place it in a duct.



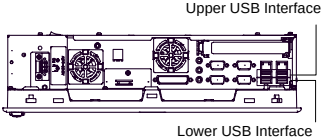
4. Input/Output Signal Line Cautions

- All PS-A 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.
- To improve noise immunity, it is recommended to attach a ferrite core to the power cord.

To prevent the USB cable from coming off

■ Attaching the USB Cable Clamp

(1) Place the PS-A unit face-down on a flat surface as shown below. Your PS-A unit has four USB connectors.



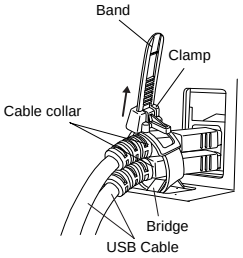
NOTE

- When using two or more USB ports, be sure to first connect one USB cable to the lower USB connector, and then connect the second USB cable to the upper USB connector.
- When using only one of the USB ports, be sure to use the lower USB connector. This allows you to securely clamp the USB cable in the cable clamp.

(2) As shown, insert the USB Cable Clamp's band through the Bridge. Pass the USB cables through the Cable Clamp's band and securely tighten the clamp band around the cables.

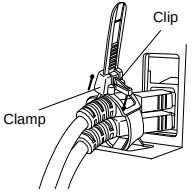
NOTE

- Be sure the clamp is securely holding the USB cable's plug and collar.
- Be sure the clamp is positioned as shown below, with the clamp pointing upwards - not to the side. This is to keep the clamp from interfering with nearby connectors and their cables.



■ Removing the USB Cable Clamp

(1) To remove the clamp from the USB cables, push down on the clamp strap's clip to release it while pulling up on the clamp.



UL/CSA Approval

The following units are UL/CSA listed products:

(UL File No.E220851, CSA File No.219866)

Product Model No.	UL/CSA Registration Model No.
PS3710A-T41-PA1	3580301-02

These products conform to the following standards:

■ UL508

Industrial Control Equipment

■ CSA-C22.2 No.142-M1987

Process Control Equipment

<Cautions>

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

- The PS-A unit's rear face is not approved as an enclosure. When building the PS-A unit into an end-use product, be sure to use an enclosure that satisfies standards as the end-use product's overall enclosure.
- The PS-A unit must be used indoors only.
- Install and operate the PS-A with its front panel facing outwards.
- If the PS-A is mounted so as to cool itself naturally, be sure to install it in a vertical panel. Also, it's recommended that the PS-A should be mounted at least 50mm away from any other adjacent structures or machine parts. The temperature must be checked on the final product in which the PS-A is installed.
- For use on a flat surface of a Type 4X (Indoor Use Only) and/or Type 12 Enclosure.

CE Marking

- PS3710A-T41-PA1 units are CE marked, EMC directives and Low Voltage Directive compliant products. These units also conform to EN55011 Class A, EN61000-6-2, and EN60950-1 directives.

FCC Statement

United States FCC Part 15, Subpart B, Class A EMI Compliance Statement:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense.

Inquiry

Do you have any questions about difficulties with this product?
Please access our site anytime that you need help with a solution.

http://www.pro-face.com/otasuke/

Note

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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