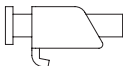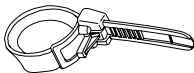# PS-3710A Series
Installation Guide

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) English and Japanese Installation Guides (one of each) <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)

AC type
(5.08mm pitch)

DC type
(7.62mm pitch)

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/PS-3711A Series Hardware Manual

• PS-3710A/PS-3711A Series Reference Manual

• API Reference Manual
  Manual can be downloaded from Pro-face Home Page.

NOTE

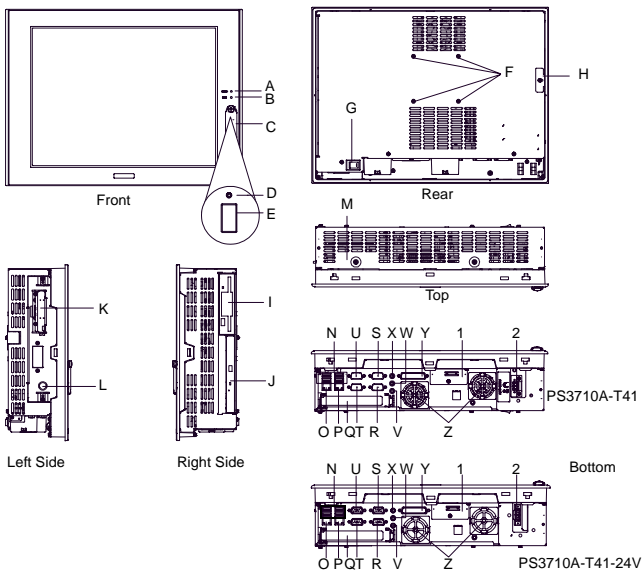• The drivers and utilities for PS-A can be downloaded from Pro-face Home Page.

Part Names and Functions

Front

Rear

Top

Left Side

Right Side

PS3710A-T41

PS3710A-T41-24V

Bottom

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

C	Front Cover	—
D	Hardware Reset Switch (RESET)	Used to restart PS-A.
E	USB Interface (USB)	1 port. Complies with USB 2.0. Uses a "TYPE-A" connector.
		Power supply voltage	DC 5V ±5%
		Output current	Each port:500mA(max.), 5 ports totally:500mA(max.)
		The maximum communication distance	5m
F	Arm Insertion Hole Location	VESA 75mm
G	Power Switch	Supported by AC type (PS3710A-T41) only.
H	Expansion Board Support	—
I	FD Drive	—
J	DVD Drive	—
K	PCMCIA Interface (PCMCIA)	2 ports. PCMCIA Type II, Type III can be available. Corresponding to CARD BUS (Excluding VIDEO ZOOM, SOUND functions).
L	PS/2 Keyboard Interface (KEYBOARD)	A mini DIN 6 pin (socket) is used.
M	Rear Cover	—
N	USB Interface (USB)	4 ports. Complies with USB 2.0.Uses a "TYPE-A" connector.
		Power supply voltage	DC 5V ±5%
		Output current	Each port:500mA(max.), 5 ports totally:500mA(max.)
		The maximum communication distance	5m
O	Ethernet Interface (LAN1)	10BASE-T/100BASE-TX Auto Changeover. This interface uses an RJ-45 type modular jack connector (8 pins).
P	Ethernet Interface (LAN2)	10BASE-T/100BASE-TX/1000BASE-T Auto Changeover. This interface uses an RJ-45 type modular jack connector (8 pins).
Q	Expansion Unit Interface	1 port. Used to attach the PCI Unit.
R	Serial Interface (COM1)	Dsub 9-pin plug type. RS-232C, RI/+5V Changeover.
S	Serial Interface (COM2)	Dsub 9-pin plug type. RS-232C, RI/+5V Changeover.
T	Serial Interface (COM3)	Dsub 9-pin plug type. RS-232C, RS-422, RS-485 Changeover.
U	Serial Interface (COM4)	Dsub 9-pin plug type. RS-232C. Changes the Touch Panel communication method. (Serial <---> USB)

V	Line Input Interface (LINE IN)	
W	Speaker Output Interface (SPEAKER OUT)	3 ports. (standard type AUDIO jack)
X	Mike Input Interface (MIC IN)	
Y	RAS Interface (RAS)	D-sub 25-pin plug type.
Z	Cooling FAN	—
1	CF Card Interface Cover	CF card interface is under the cover. Type II-compliant slot. IDE-type connection.[*1] CF card (Type I / II-compliant) is available.
2	Power Connector	—

*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

		PS3710A-T41	PS3710A-T41-24V
Power Supply	Input Voltage	AC100/240V	DC24V
	Rated Voltage	AC85 to 265V	DC19.2 to 28.8V
	Rated Frequency	50/60Hz	-
	Allowable Voltage Drop	1 cycle or less (Voltage drop interval must be 1s or more.)	5ms or less
	Power Consumption	150VA or less	110W or less
Voltage Endurance		AC1500V 20mA for 1minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (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

- 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", "4.Removal/Attachment the Rear Cover".

The location of the switchies
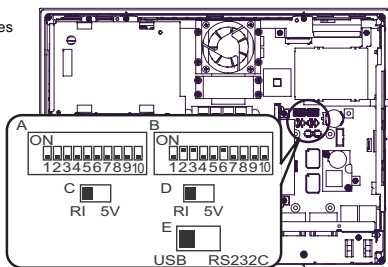
Inside of the rear

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).

Switch Location	Switch Name	Compatible I/F	Factory Settings	Description
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	Sets up an enabled/disabled state for the port execution control function of hardware reset switch.	Disabled	Enabled	OFF	The hardware reset switch is unavailable when the SW is ON. But, it is available to enter switch from the Soft OFF[*2] state.
5	Able to change a Master/Slave setting for CF card slot.	Master	Slave	OFF[*3]	
6	Sets up an enabled/disabled state for the front USB port execution control function.[*4]	Enabled	Disabled	ON	The front USB port is available when the SW is ON. It is unavailable when the SW is OFF.
7	Used for the system.	Reserved	Reserved	OFF	
8	Used for the system.	Reserved	Reserved	OFF	

Switch No.	Description	ON	OFF	Factory Settings	Notes
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®.

*3 When built in Pro-face's Windows® XP Embedded, the factory setting is ON.

*4 The Setting up an enabled/Disabled state for USB port execution control function is available for only Windows® 2000 and Windows® XP. Make sure to disable the function of the setting when other OS used.

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
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

Switch No.	Description	ON	OFF	RS-232C	RS-422	RS-485
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.
   To control TX output driver via RTS signal, 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.
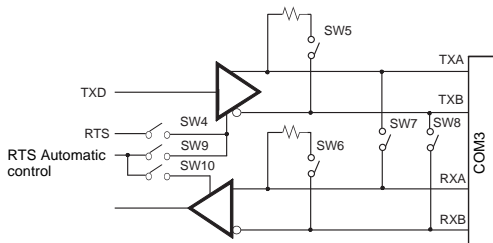
External Interfaces

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 (UNC)

◆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
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(UNC)

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(-)

Pin #	Signal Name	Meaning
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(-)
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/PS-3711A Series Reference Manual".

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.]
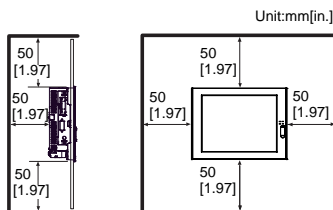
- Be sure that the surrounding air temperature and the ambient humidity are within their designated ranges. (Surrounding air temperature: with HDD 5 to 50°C without HDD 0 to 50°C, Ambient humidity: 10 to 90%RH, Wet bulb temperature: 29°C or less,)
 When installing the PS-A on the panel of a cabinet or enclosure, "Surrounding air temperature" indicates both the panel face and cabinet or enclosure's internal temperature.
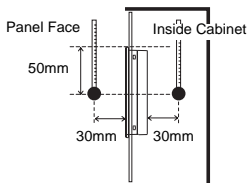
- Be sure that heat from surrounding equipment does not cause the PS-A to exceed its standard operating temperature.

2. PS-A Installation

(1) Create a Panel Cut following the dimensions in the table below.
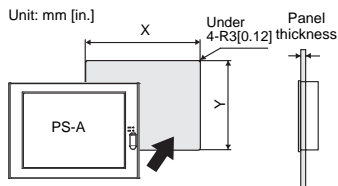
PS-A	X	Y	Panel thickness
PS-3710A	383.5^{+1}_{-0} $[15.10^{+0.04}_{-0}]$	282.5^{+1}_{-0} $[11.12^{+0.04}_{-0}]$	1.6[0.06] to 10.0[0.39]

(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/ PS-3711A 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.
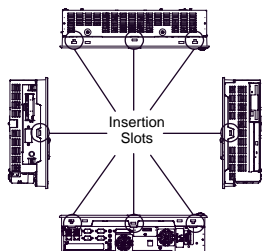

Insertion Slot Recess
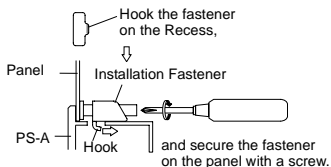
IMPORTANT

- 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. Attach the PS-A unit to an Arm

To attach the PS-A unit to an Arm or to the wall, insert the attachment screws for a commercial-type arm or wall mount adaptor into the holes in the PS-A's rear face.
(Holes specifications: VESA 75mm)

For detailed attachment instructions, please refer to that product's installation guide. The VESA Arm Attachment Hole dimensions are signifies as follows;

(unit:mm[in.])

Rear Face
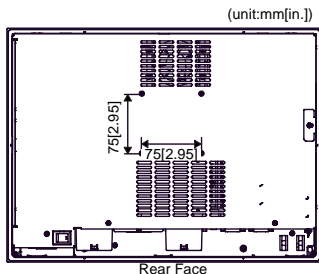
Arm Attachment Screw Holes (VESA 75mm).

Attach the four (4) M4 attachment screws. (Screw length: 6mm or less.) The torque required for these screws is 0.7 to 0.8 N•m.

4. 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.
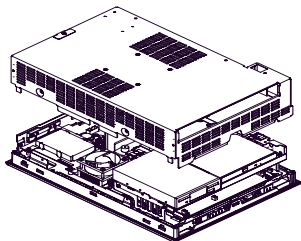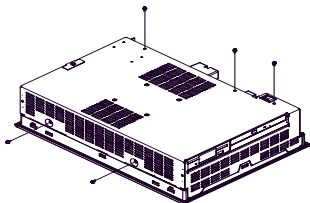
Wiring

⚠ WARNING

• <u>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.</u>
• Any other power level can damage both the PS-A and the power supply.
• Since the PS3710A-T41-24V has no power ON/OFF switch, be sure to attach a breaker-type switch to its power cord.
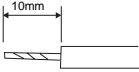• When the FG terminal is connected, be sure the wire is grounded.

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 (18 to 12 AWG)
Conductor Type	Simple or Stranded Wire[*1]
Conductor Length	10mm

*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

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)

NOTE
• Accompanying AC type power supply connector is CA7-ACCNL-01 of Pro-face or FKC2.5/3-STF-5.08 is manufactured by Phoenix Contact.
• Accompanying DC type power supply connector is CA7-DCCNL-01 of Pro-face or GFKC2.5/3-STF-7.62 is manufactured by Phoenix Contact.

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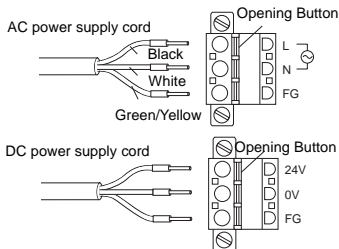
(4) After inserting all three pins, insert the Power Plug into the Power Connector at PS-A. Fix the plug with two (2) minus screws.

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.

1. 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.


Lightening Surge Absorber
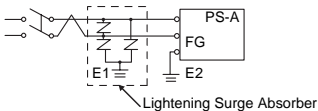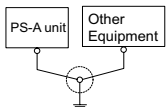
2. Grounding Cautions

- 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 sys-

tem/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.

Exclusive Grounding (BEST)
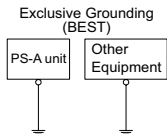
Common Grounding (OK)

Common Grounding (Not OK)
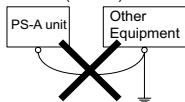
3. Input/Output Signal Line Cautions

- 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.

14

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.

Upper USB Interface

Lower USB Interface
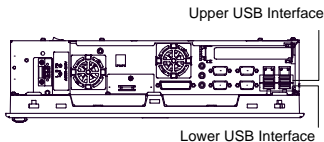
NOTE

• 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.

Band

Clamp

Cable collar

Bridge
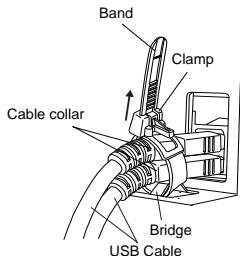
USB Cable

■ 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.

Clip

Clamp

15
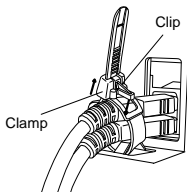
UL/CSA Approval

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	3580301-01
PS3710A-T41-24V	3580301-12

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.
• Type 4X (Indoor Use Only) and/or 12 Enclo-
sure, when the hatch for Front USB Port is
secured by screw.
Type 1 Enclosure, when the hatch for Front
USB Port is open.

CE Marking

• PS3710A-T41 unit is CE marked, EMC
directives and Low Voltage Directive com-
pliant product. The unit also conforms to
EN55011 Class A and , EN61000-6-2, and
EN60950-1.
• PS3710A-T41-24V is CE marked product
EMC directives compliant product.
EN55011 Class A, EN61000-6-2. The unit
also conforms to EN55011 Class A and
EN61000-6-2.

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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