



Quality and Innovation

# Touch Panel Teaching CON-PTA/PDA/PGA First Step Guide Fifth Edition

Thank you for purchasing our product.

Make sure to read the Safety Guide and detailed Instruction Manual (CD/DVD) included with the product in addition to this First Step Guide to ensure correct use.

This Instruction Manual is original.

**Warning :** Operation of this equipment requires detailed installation and operation instructions which are provided on the CD/DVD Manual included in the box this device was packaged in. It should be retained with this device at all times.  
A hard copy of Manual can be requested by contacting your nearest IAI Sales Office listed at the back cover of the Instruction Manual or on the First Step Guide.

- Using or copying all or part of this Instruction Manual without permission is prohibited.
- The company names, names of products and trademarks of each company shown in the sentences are registered trademarks.

## Product Check

This product is comprised of the following parts if it is of standard configuration.  
If you find any fault in the contained model or any missing parts, contact us or our distributor.

### 1. Parts (The option is excluded.)

No.	Part Name	Model	Remarks
1	Main Body	Refer to "How to read the model plate", "How to read the model No."	
Accessories			
2	Touch Pen	Built in the Main Body	
3	First Step Guide		
4	Instruction Manual (CD/DVD)		
5	Safety Guide		

### 2. Instruction manuals related to this product, which are contained in the CD/DVD.

No.	Name	Manual No.
1	Touch panel teaching CON-PTA, CON-PDA, CON-PGA Instruction Manual	ME0294
2	PCON-CA Controller Instruction Manual	ME0289
3	Instruction Manual for the actuator with integrated ERC2 controller <PIO type>	ME0158
4	Instruction Manual for the actuator with integrated ERC2 controller <SIO type>	ME0159
5	Instruction Manual for the actuator with integrated ERC3 controller	ME0297
6	PCON-C/CG/CF Controller Instruction Manual	ME0170
7	PCON-CY Controller Instruction Manual	ME0156
8	PCON-SE Controller Instruction Manual	ME0163
9	PCON-PL/PO Controller Instruction Manual	ME0164
10	ACON-C/CG Controller Instruction Manual	ME0176
11	ACON-CY Controller Instruction Manual	ME0167
12	ACON-SE Controller Instruction Manual	ME0171
13	ACON-PL/PO Controller Instruction Manual	ME0166
14	SCON-C Controller Instruction Manual	ME0161
15	SCON-CA Controller Instruction Manual	ME0243
16	ROBONET Instruction Manual	ME0208
17	ASEP/PSEP/DSEP Controller Instruction Manual	ME0267
18	PMEC/AMEC Controller Instruction Manual	ME0245
19	MSEP Controller Instruction Manual	ME0299

### 3. How to read the model plate

Model → MODEL CON-PTA  
Serial number → SERIAL No.900109940 A1 MADE IN JAPAN

### 4. How to read the model No.

#### CON-PTA-C-ENG

<Model> CON-PTA : Standard Type  
CON-PDA : With deadman switch Type  
CON-PGA : Safety Category 4 Switch Type  
<Display Color> C : TFT Color LCD Type  
<Option> Not specified : Screens are displayed in Japanese. (Display can be changed to English)  
ENG : Screens are displayed in English. (Display can be changed to Japanese)

## Supported Models

List of Support Models		
Controller Model No.		
ERC2 <sup>Note1</sup>	RACON	PSEP
ACON	PCON-CA	DSEP
PCON	ERC3	MSEP
SCON-C	RPCON	AMEC
SCON-CA	ASEP	PMEC

Note1 Check the sticker attached on the left surface (from the back view) of the cover of ERC2 main unit.  
The support is available only for the types of PCB stated below.

#### Note on the Label

PCB types	
NP T1	4904, 4905, 6302
PN T1	4904, 4905, 6302

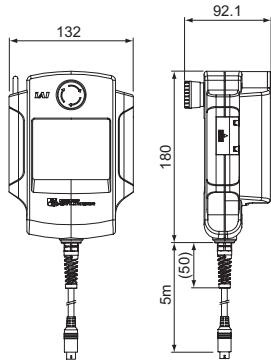
Controllers can be connected with a relay of SIO convertor to SE type of ERC2.

## Basic Specifications

Specifications	
Item	Specification
Screen	TFT Color LCD Type
Font	Japanese Bitmap Font Gothic Fonts supplied by LIM Corporation Ltd. are used.
Power Demand	3.6W or less (150mA or less)
Ambient air temperature, humidity	Temperature 0 to 40°C Humidity 20 to 85%RH (There should be no dew condensation).
Ambient storage temperature, humidity	Temperature -20 to 60°C Humidity 10 to 85%RH (There should be no dew condensation).
Vibration resistance	10 to 55Hz (5-minute period) (Test Condition) Duplex Amplitude 0.35mm X,Y,Z Direction for 50minutes
Impact Resistance	(Test Condition) 9.8m/s <sup>2</sup> or more X,Y,Z Direction Four Times
Environment Resistance	IP40 or equivalent
Dimensions	180mm (L) × 132mm (W) × 92.1mm (D)
Weight	CON-PTA : Approx. 570g (Including the 5m cable) CON-PDA/PGA : Approx. 600g (Including the 5m cable)
Cable length	5m (Standard)
Accessories	Touch pen
SD Memory Card Slot	SD, SDHC (Manufactured by Toshiba) 1G to 8G byte

Language Change		
Model	Displayed Language (at Delivery)	Available Language
CON-PTA-C-ENG	English	Japanese

## External Dimensions

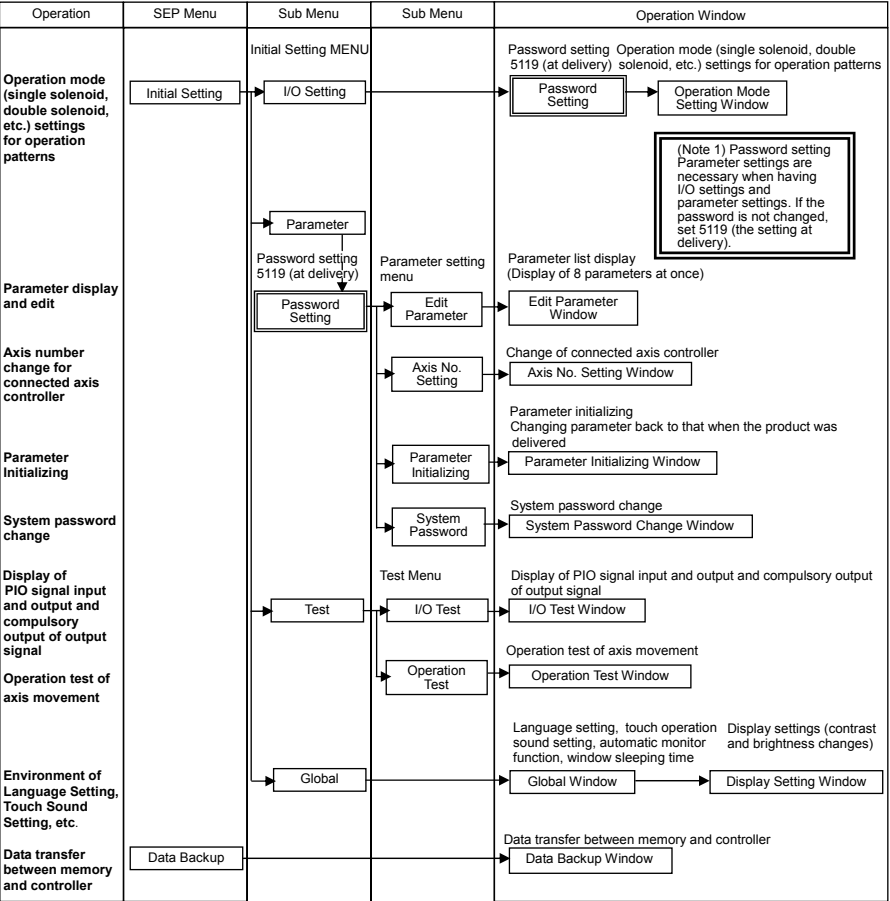


## Operation Menu for CON Related Controllers

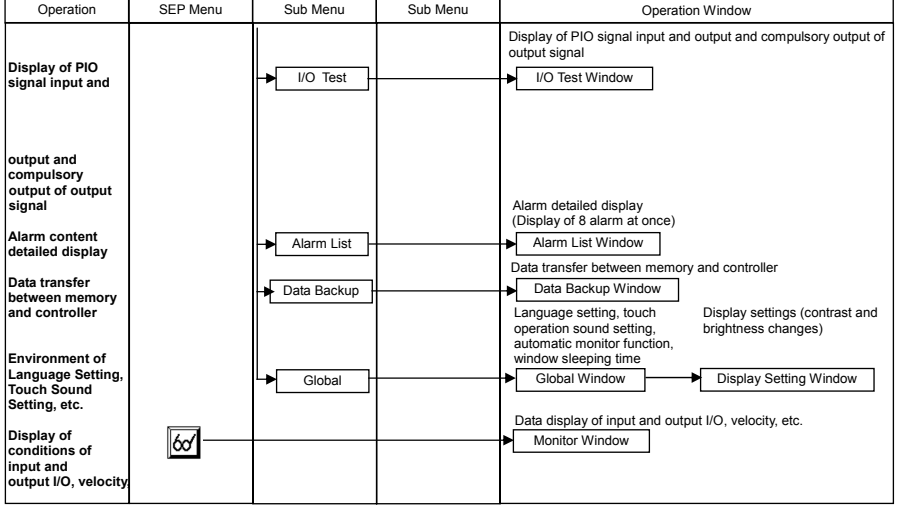
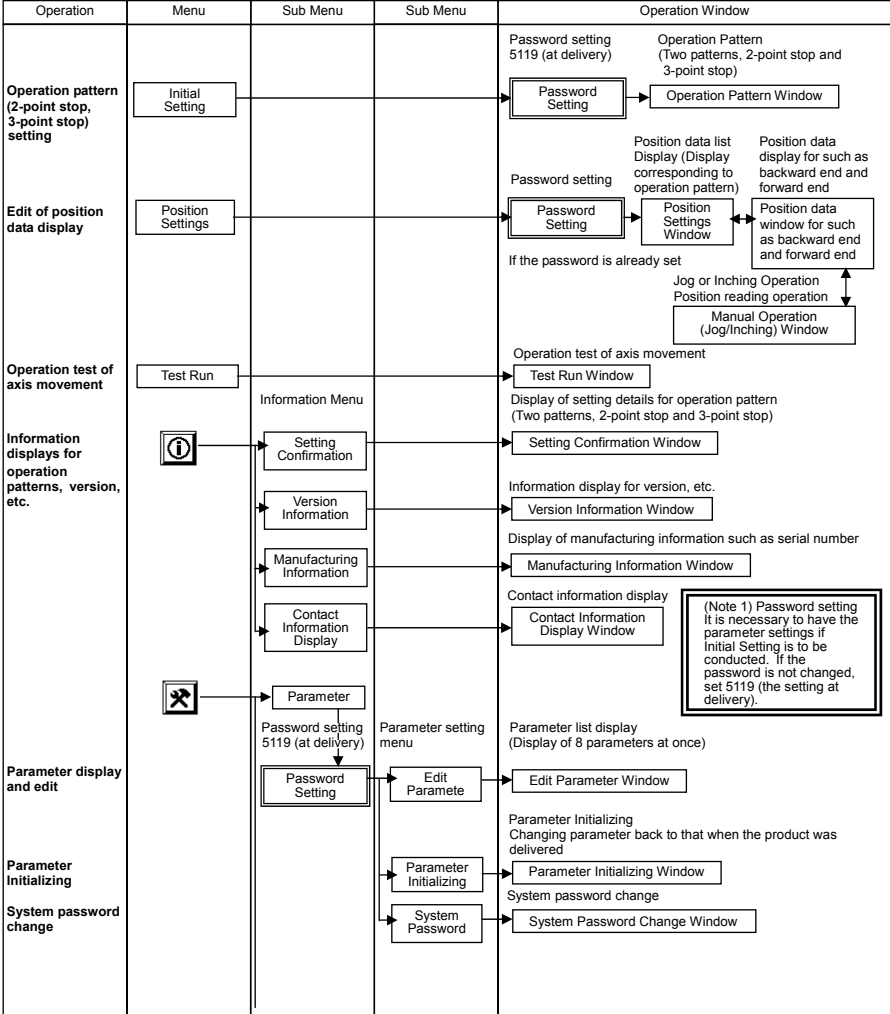
Operation	Menu 1	Sub Menu	Operation Window
Display of conditions of input and output I/O, velocity, etc.	Monitor		Data display of input and output I/O, velocity, etc. Monitor Main Window
			Display of input and output I/O details I/O Monitor Window
			Display of detailed information for velocity, etc. Data Monitor Window
Edit of position data display	Edit Position		Maintenance information For PCON-CA, ERC3 PIO converter and SCON-CA
			Password setting Password Setting Window
			Position data list display (Display of 7 positions at once) Position Table Window
Parameter display and edit	Edit Parameter		Position data display Position Number Data Edit Window
			If the password is already set Smart Tuning Window
			JOG operation JOG Operation Window
Operation test of axis movement	Trial Operation		Inching operation Inching Operation Window
			Parameter list display (Display of 8 parameters at once) Edit Parameter Window
			JOG operation JOG Operation Window
Display of PIO signal input and output and compulsory output of output signal	I/O Test		Inching operation Inching Operation Window
			Movement with position number indication Operation Window for Movement with Position Number Indication
			Movement with position (value) input Operation Window for Movement with Position (value) Input
Alarm content Detailed display	Alarm List		Display of PIO signal input and output and compulsory output of output signal I/O Test Window
			Alarm detailed display (Display of 8 Alarm at once) Alarm List Window
			Information display for version, etc. Information Display Window
Information display for version, etc.	Information		Data transfer between memory and controller Data Backup Window
			Menu 2 window display Menu 2 Window
			Menu 2 window display Menu 2 Window

## Operation Menu for SEP Related Controllers

Operation	SEP Menu	Sub Menu	Sub Menu	Operation Window
Display of conditions of input and output I/O, velocity, etc.	Monitor			Data display of input and output I/O, velocity, etc. Monitor Window
				Information Menu Setting Confirmation Window
				Version Information Window
Information displays for operation patterns, version, etc.	Information			Display of manufacturing information such as serial number Manufacturing Information Window
				Contact information display Contact Information Display Window
				Alarm detailed display (Display of 8 alarm at once) Alarm List Window
Alarm content Detailed display	Alarm List			Select/change connected axis controller Operated Axis Change Window
				Password Setting Position data list display (Display corresponding to operation pattern) Position data display for such as backward end and forward end Position data window for such as backward end and forward end
				JOG operation JOG Operation Window
Select/change connected axis controller	Change of Operated Axis			Inching Operation Inching Operation Window
				Position data display for such as backward end and forward end Position data window for such as backward end and forward end
				JOG operation JOG Operation Window
Edit of position data display	Position Settings			Inching Operation Inching Operation Window
				Position data display for such as backward end and forward end Position data window for such as backward end and forward end
				JOG operation JOG Operation Window



Operation Menu for MEC Related Controllers



Treatment in an emergency

Listed below are the main error codes detected often in the touch panel teaching. For the other error codes, please refer to Instruction Manual (CD/DVD manual) enclosed with the main unit.

For the error codes specialized for each controller, please refer to Instruction Manual (CD/DVD manual) provided with each controller.

Code	Error Description	Cause and Treatment
308	Response Timeout Error No response is returned from the controller.	Cause : A wire breakage is caused in the controller connection cable. Treatment : Check the wiring for or wire breakage in the connection cable. Cause : It is temporary error due to noise. Treatment : Re-input the power to the controller.
30D	Abnormal Response Receive Error An abnormal response is returned from the controller.	Cause : It is temporary error due to noise. Treatment : If it is caused frequently, check the noise protection measure, etc., in the power unit.



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