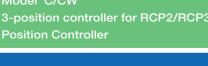
Model C/CW 3-position controller for RCP2/RCP3





Model C/CW 3-position controller for RCA/RCA2/RCL **Position Controller**

When mounting the absolute battery unit,

Feature

Controllers
Integrated

Rocallers
Mini

Standard
Controllers
Integrated

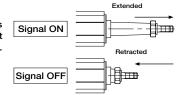
Table/Arm
/Flat Type
Mini

Standard

Gripper
Rotary Type

1 Can operate with same signal as a solenoid valve.

The signal that operates the actuator is the same as the signal that operates the air cylinder. Therefore, the PLC program currently in use can be used without modification even if the air cylinder is replaced by an electric-powered cylinder. Either a single solenoid or a double solenoid may be used.

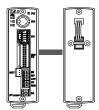


2 Establishes a dustproof type that supports IP53.

We provide dustproof type controllers with an IP53 equivalent (*1) protection structure, so that the controller can be mounted outside the control panel.

(1) Bottom surface excluded.





3 Provides the simple absolute type that can be operated immediately upon power-ON without homing.

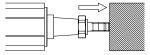
Since the simple absolute type can store the current position with the assistance of the absolute battery unit during power-up or after the emergency stop is deactivated; it can start the next operation at that position.

(Note 1) When the actuator is connected to the simple absolute type controller, the model is considered an incremental model.
(Note 2) It can not be used for the linear servo type.

4 Pushing and intermediate stop operation is available.

Like air cylinders, the pushing operation is available. In this operation, you can stop with a rod being pushed to a workpiece.

Since the force for the push operation is adjustable within a range between 20 to 70 $\,\%$ of the maximum pushing force and a signal is generated when it reaches the specified pushing force, it can be used to determine clamping or size of workpieces.



Push force is adjustable within the range of 20 to 70% of the maximum pushing force

PMEC /AMEC PSEP /ASEP ROBO NET ERC2 PCON ACON SCON PSEL



5 Easy data entry with the dedicated touch panel teaching unit.

Data, such as setting target positions or pushing force, are easily entered with the optional touch panel teaching model: CON-PT.

Since the touch panel teaching unit provides an interactive menu and can be controlled directly on the screen, you can operate intuitively with no assistance from operation manuals.

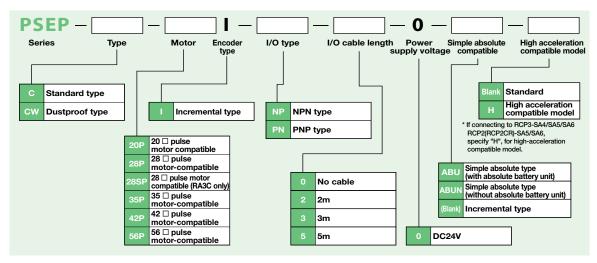


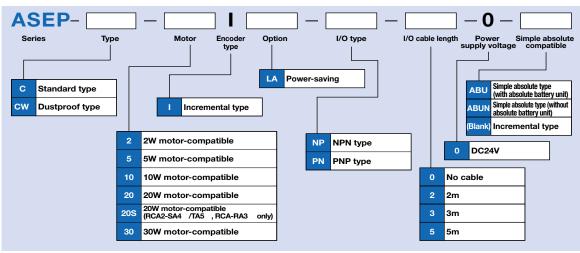


Model List

Series name	PSEP				ASEP				
Type	С		CW		С		CW		
Name	Standard		Dustproof		Standard		Dust proof		
Positioning method	Incremental encoder	Simple absolute type	Incremental encoder	Simple absolute type	Incremental encoder	Simple absolute type	Incremental encoder	Simple absolute type	
External View						· · · · · · · · · · · · · · · · · · ·			
Description	Position controller, for pulse motors, specialized to 2 positions / 3 positions positioning and easier control		PSEP-C dustproof type with an IP53 equivalent protection structure		Position controller, for servo motors, specialized to 2 positions / 3 positions positioning and easier control		ASEP-C dustproof type with an IP53 equivalent protection structure		
Number of positions	2 positions / 3 positions								
Standard price	-	-	-	-	-	-	-	-	

Model





IAI

PSEP / ASEP 488



Splash-Proo

Controllers

PMEC
/AMEC

PSEP
/ASEP

ROBO
NET

ERC2

PCON

ACON

SCON

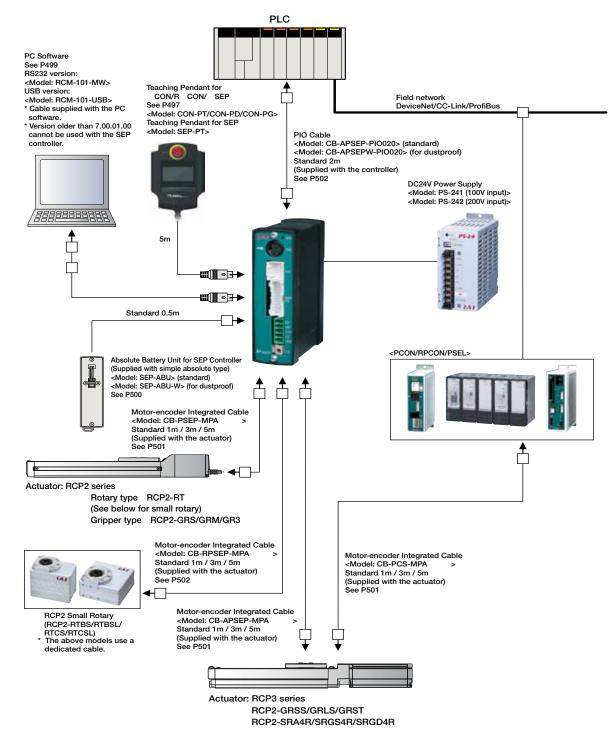
PSEL

ASEL

Slider Type

System structure

[PSEP]

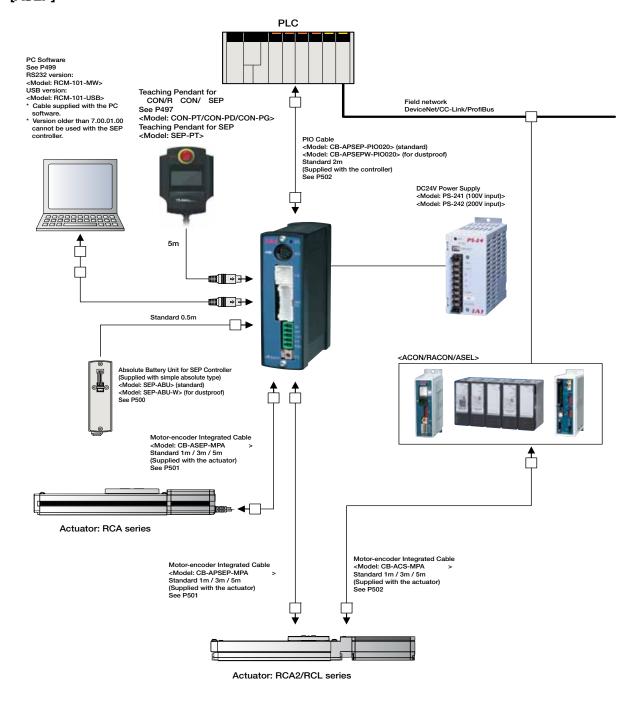


489 PSEF



System structure

[ASEP]



Pulse Moto

PMEC AMEC PSEP ASEP ROBO NET PCON ACON SCON PSEL

Mini
Standard
Controllers
Integrated
Rod
Type
Mini
Standard
Controllers
Integrated
Table/Arm
Plat Type

Servo Motor (24V)

> ervo Motor !00V)

Linear Servo Moto

IAI

PSEP / ASEP **490**

PSEP / ASEP Controller

PIO Pattern Description

Mini
Standard
Controllers
Integrated
Roc
Type
Mini
Standard
Controllers
Integrated
Table/Arm
/Flat Type
Mini
Standard

The SEP controller provides the following six PIO patterns from which you can choose for operation. Also, PIO patterns 0 to 2 support both the single solenoid and double solenoid signal configurations.

PIO Pattern Number 0		1		2		3	4	5		
PIO Pattern Name		Standard 2-position movement		Moving speed change		Position Data Change		2-input 3-position travel	3-input 3-position travel	Continuous cycle operation
		Continuous cycle operation		2-position motion		2-position motion		3-position motion	3-position motion	Continuous motion between 2 positions
Feature	Feature		Push		Push		sh	Push	Push	Push
			-		Changing speed during motion		position hange	-	-	-
Supported so configurat		Single	Double	Single	Double	Single	Double	-	-	-
	0	Motion signal	Motion signal 1	Motion signal	Motion signal 1	Motion signal	Motion signal 1	Motion signal 1	Retract motion signal	Continuous operation signal
lanua	1	Pause signal	Motion signal 2	Pause signal	Motion signal 2	Pause signal	Motion signal 2	Motion signal 2	Extend motion signal	Pause signal
Input	2	(Reset signal)		Moving spe signal (res			tion change et signal)	- (Reset signal)	Intermediate motion signal (reset signal)	- (Reset signal)
	3	_ /Servo-ON signal		/Servo-C	- ON signal	/Servo-C	- DN signal	- /Servo-ON signal	- /Servo-ON signal	- /Servo-ON signal
	0	Retract motion output signal		Retract output			motion signal	Retract motion output signal	Retract motion output signal	Retract motion output signal
Outrout	1	Extend motion output signal		Extend motion output signal			motion signal	Extend motion output signal	Extend motion output signal	Extend motion output signal
Output	2	Homing completion signal / Servo-ON output signal		Homing comp				Midpoint position output signal	Midpoint position output signal	Homing completion signal /Servo-ON output signal
	3	Alarm output signal / Servo-ON output signal		Alarm out /Servo-ON o			put signal output signal	Alarm output signal /Servo-ON output signal	Alarm output signal /Servo-ON output signal	Alarm output signal /Servo-ON output signal

^{*} For the signals above, see the controller manuals (downloadable from our website).

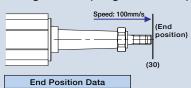
PIO Pattern 0 (Standard 2-Position travel)

This PIO pattern involves movements between two positions—the end position and the home position.

The positions can be set numerically to any position (by inputting to the controller using the optional touch panel teaching pendant).

Two motions are possible: A "positioning motion" moves the rod or the slider to the specified position, and a "pushing motion" pushes the rod against a workpiece.

Positioning Motion (Single Solenoid)



Position	30	
Speed	100	
Pushing force	-	
Width	-	
(Home p	Speed Speed	l: 50mr

m/s

Home Pos	Home Position Data			
Position	0			
Speed	50			
Pushing force	-			
Width -				

Input Signals Input 0 ON Input 1 Input 2 -

Input 3

When Input 0 is turned ON, the slider/rod moves to the end position (30mm coordinate) at a speed of 100mm/s.

Input Signals

Input 0	OFF
Input 1	-
Input 2	-
Input 3	1

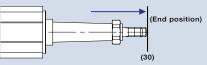
When input 0 is turned OFF, the slider/rod returns to the home position (0mm coordinate) at a speed of 50mm/s.

491

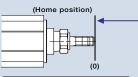
PSEP / ASE



Positioning Motion (Double Solenoid)



End Position Data				
Position 30				
Speed	100			
Pushing force	-			
Width	-			



Home Position Data				
Position 0				
Speed	50			
Pushing force	-			
Width	-			

Innut Signals

iliput Signais				
Input 0	OFF			
Input 1	ON			
Input 2	-			
Input 3	-			

When Input 1 is turned ON and Input 0 is turned OFF, the slider/rod moves to the end position (30mm coordinate) at a speed of 100mm/s.

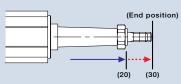
Innut Signals

input oignais				
ON				
OFF				
-				
Input 3 -				

Input 1 is turned OFF, me position (0mm n/s.

ut 0	ON	When Input 0 is turned ON and
ut 1	OFF	the slider/rod returns to the hor
ut 2	_	coordinate) at a speed of 50mm
ut 3	-	

Push motion (single solenoid)



End Position Data			
Position 30			
Speed	100		
Pushing force	50		
Width	10		

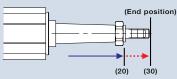
Input Signals

1					
Input 0	ON				
Input 1	_				
Input 2	-				
Input 3	_				

When Input 0 is turned ON, the rod moves to the 20mm position at 100mm/s, and then starts pushing from the 20mm position to the 30mm position at slow speed.

* The pushing motion is performed only if there is a numerical value for the pushing force in the controller's position data. (If there is no numerical value for the pushing force, a positioning motion will be performed instead.)

Push motion (double solenoid)



End Position Data	
Position	30
Speed	100
Pushing force	50
Width	10

Input Signals

OFF
ON
-
_

When Input 1 is turned ON and Input 0 is turned OFF, the rod moves to the 20mm position at 100mm/s, and then starts pushing from the 20mm position to the 30mm position at slow speed.

* The pushing motion is performed only if there is a numerical value for the pushing force in the controller's position data. (If there is no numerical value for the pushing force, a positioning motion will be performed instead.)

















































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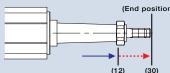
PIO Pattern 1 (Speed Change During Movement)

This PIO pattern involves movements between two positions—the end position and the home position.

The speed can be changed in 2 stages. (The speed can be either increased or decreased.)

The speed change occurs when the rod/slider passes the speed change position, specified in the position values.

(Single Solenoid) If the speed change signal is OFF: If the speed change signal is ON: Home position Speed change position (12) (End position 1)



Input Signals

Input 0 ON

Input 1
Input 2 ON

Input 3 -

When Input 0 is turned ON while Input 2 is turned ON, the rod moves at the initial speed up to the trigger point.

After it passes the trigger point, the speed changes. If Input 2 is not turned ON, the speed will not change.

Home Position Data	
Position	0
Speed	50
Trigger point	12
Trigger speed	100
Pushing force	-
Width	-

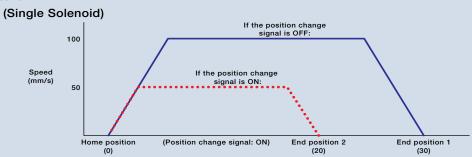
End Position Data	
Position	30
Speed	100
Trigger point	12
Trigger speed	50
Pushing force	_
Width	1

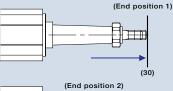


This PIO pattern involves movements between two positions—the end position and the home position.

You can set 2 sets of data for the end / home positions, speed, pushing force, and pushing width.

Switching between the 2 sets of data can be done by turning ON/OFF Input 2, which is the signal for switching the target position.





Input Signals

Input 0 ON

Input 1
Input 2 ON

Input 3 -

If Input 2 (position change signal) is OFF when Input 0 is turned ON, the rod moves according to the position and speed set in "End Position Data 1" (position: 30 / speed: 100).

If Input 2 is ON when Input 0 is turned ON, the rod's movement changes to the position and speed set in "End Position Data 2" (position: 20 / speed: 50). If Input 2 is OFF when the movement starts, but is turned ON in transit, the target position and speed is changed from that position.

End Position Data 1		
Position	30	
Speed	100	
Pushing force	1	
Width	-	

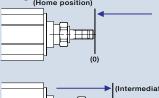
End Position Data 2	
Position	20
Speed	50
Pushing force	-
Width	-

493 PSEP /

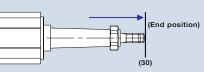
This PIO pattern involves movements between 3 positions-the end position, the home position, and an intermediate position.

Changing between the positions is done by a combination of 2 signals, Input 0 and Input 1.

Positioning Motion
(Home position)



(Intermediate position)
(10)



Input Signals

Input 0	ON	
Input 1	OFF	
Input 2	1	
Input 3	-	

When only Input 0 is turned ON, the rod moves to the home position at the specified speed.

riput Signais		
Input 0	ON	
Input 1	ON	
Input 2	-	
Input 3	-	

When Input 0 and Input 1 are both turned ON, the rod moves to the intermediate position at the specified speed.

Input Signals

input Oigii	u.0
Input 0	OFF
Input 1	ON
Input 2	-
Input 3	

When only Input 1 is turned ON, the rod moves to the end position at the specified speed.

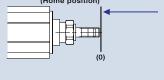
PIO Pattern 4 (3-Input 3-Position Travel)

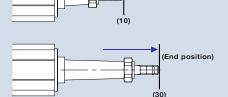
This PIO pattern involves movements between 3 positions—the end position, the home position, and an intermediate

position.

Changing between positions is done by three signals—Input 0, Input 1 and Input 2, which are commanded to move to the home, end and intermediate positions, respectively.

Positioning Motion





Input Signals

Input 0	ON	
Input 1	OFF	
Input 2	OFF	
Input 3	_	

moves to the home position at the specified speed.

Input Signals

Input 0	OFF	
Input 1	OFF	
Input 2	ON	
Input 3	_	

When Input 2 is turned ON, the rod moves to the intermediate position at the specified speed.

When Input 0 is turned ON, the rod

input Signais					
Input 0 OFF					
Input 1	ON				
Input 2	OFF				
Input 3	-				

When Input 1 is turned ON, the rod moves to the end position at the specified speed.

PIO Pattern 5 (Continuous Cycle Operation)

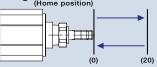
This PIO pattern involves continuous cycling between 2 positions—the end and home positions.

When Input 0 (continuous operation signal) is turned ON, the rod continuously moves between the specified 2

If Input 0 is turned OFF while in motion, it stops after reaching the current destination.

(Intermediate position)

Positioning Motion



Input Signals

Input 0	ON
Input 1	-
Input 2	_
Input 3	-

When Input 0 is turned ON, the rod moves continuously between the end and home positions at the specified speed.

IAI



Splash-Proo

Controllers

PMEC
/AMEC

PSEP
/ASEP

ROBO
NET

ERC2

PCON

ACON

SCON

PSEL

ASEL

Standard
Controllers integrated
Mini
Standard
Controllers the graded
Controllers the graded
Mini
Standard
Standard







PSEP / ASEP Controller

Sider Type

Mini

Standard

Controllers Integrated

Rod
Type

Mini

Standard

Controllers Integrated

Table/Arm

/Flat Type

I/O Signal

Pin Cable		PIO pattern		0		1		2		3	4	5		
		PIO pattern name		Standard 2-position motion		Speed change		Position change		2-input 3-position travel	3-input 3-position travel	Continuous cycle operation		
NO.			id type	Single	Double	Single	Double	Single	Double	-	-	-		
1	Brown	сом		24V 24V		24V		24V	24V	24V				
2	Red	CC	ОМ	0	V	ov		0V		0V	ov	ov		
3	Orange		0	ST0	ST0	ST0	ST0	ST0	ST0	ST0	ST0	ASTR		
4	Yellow		1	*STP	ST1(-)	*STP	ST1(-)	*STP	ST1(-)	ST1	ST1(-)	-/*STP		
5	Green	Input	2	-(R	RES)	SPDC(RES)		CN1(RES)		-(RES)	ST2(RES)	-(RES)		
6	Blue		3	-/S	ON	-/SON		-/SON		-/SON	-/SON	-/SON		
7	Purple		0	LS0	LS0/PE0		LS0/PE0		/PE0	LS0/PE0	LS0/PE0	LS0/PE0		
8	Grey	1		LS1	/PE1	LS1/PE1		LS1/PE1		LS1/PE1	LS1/PE1	LS1/PE1		
9	White	Output	2	HEND/SV		HEND/SV		HEND/SV		LS2/PE2	LS2/PE2	HEND/SV		
10	Black		3	*ALN	M/SV	*ALM/SV		*ALM/SV		*ALM/SV		*ALM/SV	*ALM/SV	*ALM/SV

Note: The above signals marked with * are normally ON and turn OFF when active.

Specification Table

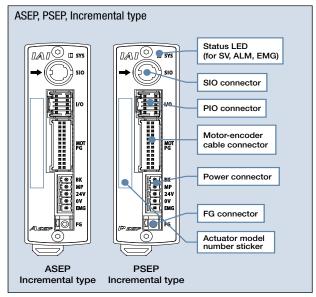
Оробіно	ation rabic									
	Item	Туре								
Controller type		PSE	ASEP							
Controller type		С	CW		С		cw			
Connected actua	ators	RCP2/RCP3 se	ries actuator		RCA/RCA2/RCL	. series a	ctuator			
Number of contr	ol axes			1						
Operating method	od	Positioner Type								
Number of posit	ions		2 posi	tions/3 posit	ions (4 positions*2)					
Backup memory	•			EEPI	ROM					
I/O connector				10 pin co	onnector					
Number of I/O p	oints		4 i	nput points/	4 output points					
I/O power supply	у		Exte	rnal power su	ipply DC24V±10%					
Dedicated type	for serial communication			RS48	5 1ch					
Communication ca	able for peripheral equipment	CB-APSEP-PIO	CB-APSEPW-	PIO 🗆 🗆 🗆	CB-APSEP-PIO	CB-A	PSEPW-PI	0 🗆 🗆		
Position detection	on method	Incremental encoder (Atta	ching an absolu	it makes the simple absolute s	pecifica	tion possil	ole *3)			
	For RCP2 connection	CB-PSEP-M	IPA 🗆 🗆 🗆		(Connection	not poss	ible)			
Motor-encoder	For RCA connection	(Connection n	CB-ASEP-	-ASEP-MPA						
cable	For RCP3/RCA2 connection									
	For RCP2 mini rotary connection	CB-RPSEP-	(Connection	nnection not possible)						
Input voltage		DC24V±10%								
Controlled power	er supply capacity		0.5A (0.8A t	for the simple	absolute specification)					
						Rated	Maximum			
		Motor size	Rated value	Max.(*4)	Motor power output	value	Power- saving (*5)	Standard (*6) high- acceleration / deceleration		
		20P	0.4A	2.0A	2W	0.8A	Not specified	4.6A		
		28P	0.4A	2.0A	5W	1.0A	Not specified	6.4A		
Motor power cap	oacity	35P	1.2A	2.0A	10W (for RCL)	1.3A	Not specified	6.4A		
		42P	1.2A	2.0A	10W (for RCA/RCA2)	1.3A	2.5A	4.4A		
		56P	1.2A	2.0A	20W	1.3A	2.5A	4.4A		
		-	-	-	20W (for 20S motor)	1.7A	3.4A	5.1A		
		-	-	-	30W	1.3A	2.2A	4.4A		
Inrush current (*	1)			Max	. 10A					
Amount of heat	generated	8.4W 9.6W								
Dielectric streng	th voltage	DC500V 1MΩ								
Resistance to vi	huatian	XYZ directions 10~57Hz One-side width 0.035mm (continuous), 0.075mm (intermittent)								
nesistance to vi	bration	58~150Hz 4.9m/s ² (continuous), 9.8m/s ² (intermittent)								
Ambient operati	ng temperature	0~40°C								
Ambient operati	ng humidity	10~85%RH (non-condensing)								
Ambient operati	ng environment	No corrosive gases								
Protection level		IP20	IP53 (*	7)	IP20		IP53 (*7)			
Weight		About 130g About 160g			About 130g		About 160) a		

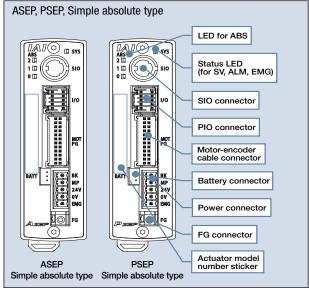
- (*1) Upon power-ON, an electrical current of 5 to 12 times as much as the rated current, called "in rush current" flows for 1 to 2 ms. Note that the amount of inrush current

- (*1) Upon power-ON, an electrical current of 5 to 12 times as much as the rated current, called "in rush current" flows for 1 to 2 ms. Note that the amount of inrush current varies based on the impedance of power source lines.
 (*2) This applies to the case where two position data points are set at each of the end and home positions during a "position change" motion pattern process.
 (*3) The simple absolute type controllers cannot be used for the linear servo type.
 (*4) The current reaches its maximum level during the servo motor excitation phase detection performed during the initial servo ON process after the power has been turned on. (Josually: Approx. 1 to 2 seconds, max. 10 seconds.)
 (*5) When power to the motor is turned ON after shutting it OFF, current of about 6.0 A flows (for aprox.1-2ms).
 (*6) The max. value of current can be detected in the magnetic pole detection process or during collision or constraint. The condition continues for up to 10 seconds in the magnetic pole detection process. In this process the above current is required.
 (*7) The bottom surface is excluded.

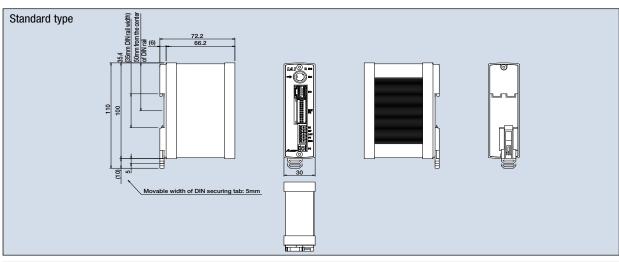
PSEP / ASEP

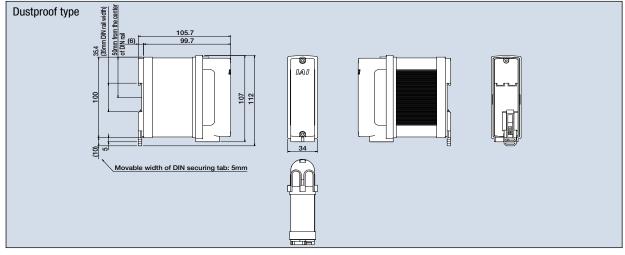
Names





Outer dimensions





IAI

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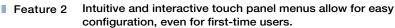


Mini
Standard
Controllers
Integrated
Rod
Type
Mini
Standard
Controllers
Integrated
Mini
Standard
Standard

Option

Touch Panel Teaching Pendant for Position Controller

A data input device with an intuitive touch panel menu Feature 1 screen that is easy to operate, even for first-time users. You can use it to configure settings such as home / end positions, intermediate position, speed, and pushing force, or to run an adjustment operation such as jogging, inching, and moving to a specified position.





Large, easy to read display

Monitor

Position Edit

Parameter Edit

Data Back-up

Easy configuration with the touch panel Backlight color changes when an error occurs

Return

Message No. 112

Input data error

Axis No. 00

Inquiry

■ Model & Specifications

Item	Description						
Model	CON-PT-M-ENG	CON-PD-M-ENG	CON-PG-M-S-ENG	SEP-PT-ENG			
Туре	Standard type	Enable switch type	Safety compliant type	SEP controller dedicated type			
Connectible controllers		PSEP ASEP					
3-position enable switch	×	0	0	×			
Functions	Input and edit position data Movement functions (move to specified position, jog, inch) Test input and output signals Edit parameters						
Display	3-color LED with backlight						
Operating ambient temp./Humidity	0~50°C 20~85% RH (non-condensing)						
Environmental resistance	IP40						
Weight (incl. 5m cable)	Approx. 750g	Approx. 780g	Approx. 780g	Approx. 550g			
Touch pen Accessories		Touch pen	TP Adapter (Model: RCB-LB-TG) Dummy Plug (Model: DP-4) Controller connection cable (Model: CB-CON-LB005)	• Touch pen			
			Touch pen				

(*) If an ERC2 type controller does not have "4904" on the serial number label, it cannot be connected.

If you have a "CON" type controller (i.e. PCON, RPCON, ACON, RACON, SCON, ERC2) and an "SEP" type controller (PSEP or ASEP) linked together, you cannot connect the teaching pendant to it.

497 PSEP/ASEP



Mini
Standard
Controllers
Integrated
Rod
Type
Mini
Standard
Controllers
Integrated
Table/Arn
//Flat Typ
Mini
Standard

Controllers

PMEC /AMEC

PSEP //ASEP

ROBO NET

ERC2

PCON

ACON

SCON

PSEL

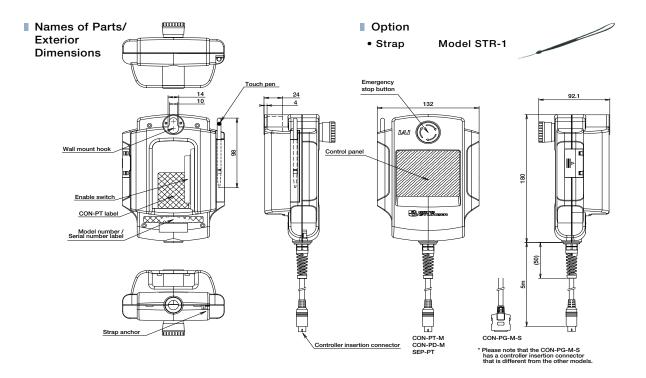
ASEL



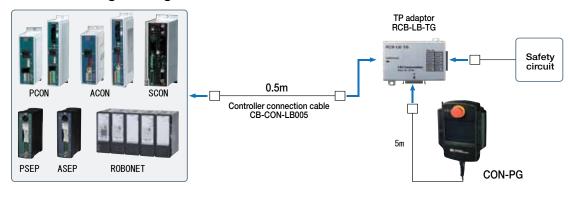




Absolute battery unit for SEP controllers



CON-PG-M-S Wiring Drawing



ler e

Mini

Mini

Controllers

Rod Type

Mini

Standard

Controllers Integrated

Table/Arm /Flat Type

Mini

Gripper/ Rotary Type

Linear Servo Type

Splash-Proof

Controllers

PMEC /AMEC

ROBO NET

ERC2

ACON

SCON

PSEL

SSEL

XSEL

Pulse Motor

Servo Motor (24V)

Servo Motor (200V)

Linear Servo Moto

IAI

PSEP / ASEP 498





ntegrated

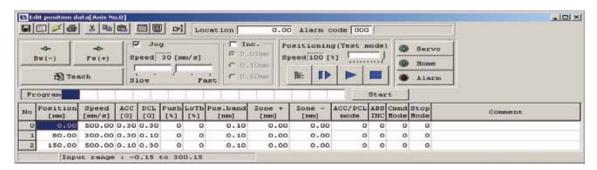
Roc
Type

Mini

Option

PC Software (Windows Only)

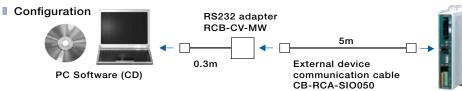
Features A startup support software for inputting positions, performing test runs, and monitoring. With enhancements for adjustment functions, the startup time is shortened.



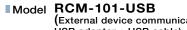


■ Model RCM-101-MW

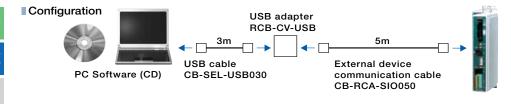
(External device communication cable + RS232 conversion unit)







(External device communication cable + USB adapter + USB cable)





Absolute battery unit for SEP controllers

Supplied with the PSEP and ASEP simple absolute controllers. Description

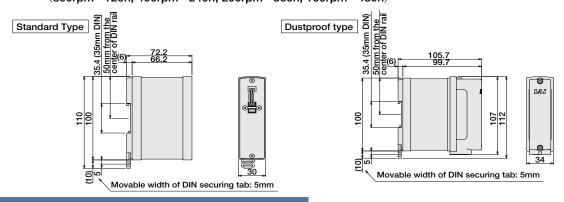
This is a battery unit used for backing up the current position data.

SEP-ABU (standard type) Model SEP-ABU-W (dustproof type)

Specifications

Item	Specifications				
Ambient operating temp./Humidity	0~40°C (around 20°C preferred), 95% RH or below (non-condensing)				
Ambient operating environment	No corrosive gases				
Absolute battery (*1)	Model: AB-7 (Ni-MH battery/Approx. 3-year life)				
Controller-absolute battery unit cable (*1)	Model: CB-APSEP-AB005 (0.5m long)				
Weight	Standard type: Approx. 230g; Dustproof type: Approx. 260g				
Allowable encoder RPM during data retention (*2)	800rpm	400rpm	200rpm	100rpm	
Position data retention duration (*2)	120h	240h	360h	480h	

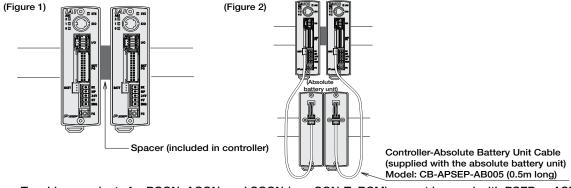
(*1) The absolute battery unit comes with a cable to connect the controller and the absolute battery unit. (*2) Position data retention time changes with the allowable encoder RPMs during data retention. (800rpm→120h, 400rpm→240h, 200rpm→360h, 100rpm→480h)



Cautions on Controllers and Options

- · When mounting the controller to a DIN rail, use the supplied spacer between the controllers to prevent them from contacting each other, to deal with heat dissipation. (See Fig. 1)
- · When mounting the absolute battery units and controllers, place the absolute battery units below the controllers. (See Fig. 2)

If there is not enough space below the controllers, mount the absolute battery units in such a way that the temperature around the controllers stays at 40°C or below.

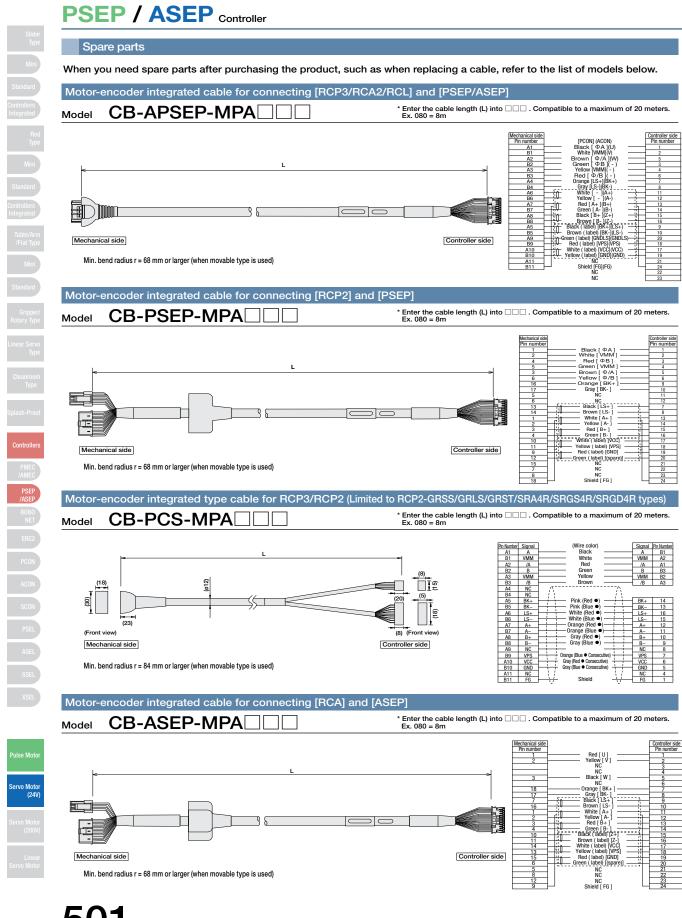


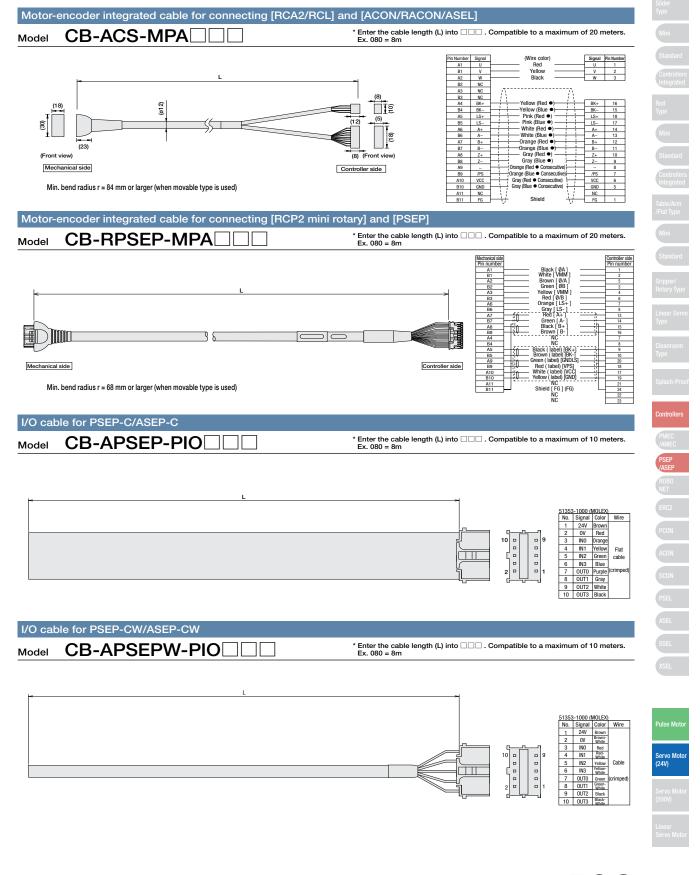
- Teaching pendants for PCON, ACON, and SCON (e.g. CON-T, RCM) cannot be used with PSEP or ASEP. For PSEP and ASEP, use the SEP-PT.
- The SEP-PT cannot communicate to the linked controllers. (Please connect them directly to the controller.)

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PMEC /AMEC PSEP /ASEP ROBO NET ERC2 PCON ACON SCON PSEL ASEL

sales@electromate.com





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