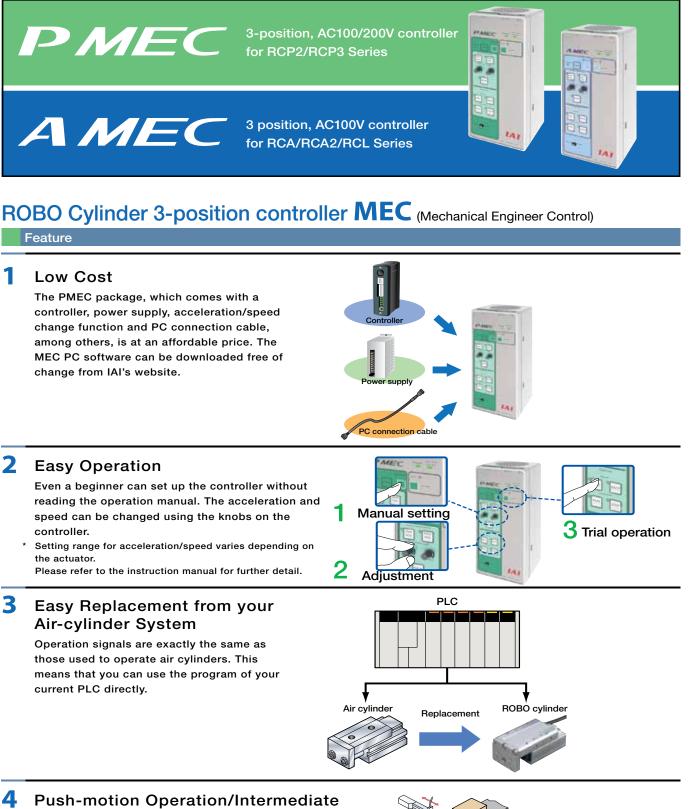
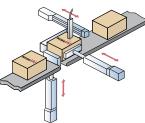
PMEC / AMEC Controller



Push-motion Operation/Intermediate Stopping

Push-motion operation can be performed in the same manner as you would with any air-cylinder system. Also, you can cause the actuator to stop at any desired intermediate point between the home position and stroke end by changing the setting of the intermediate point using the MEC PC software.

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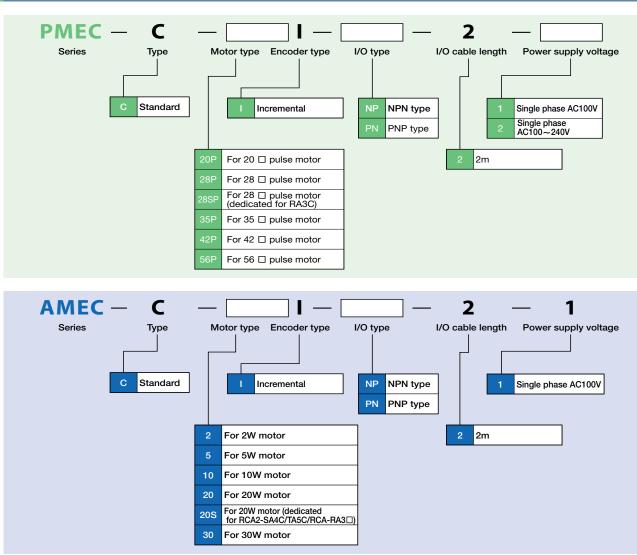


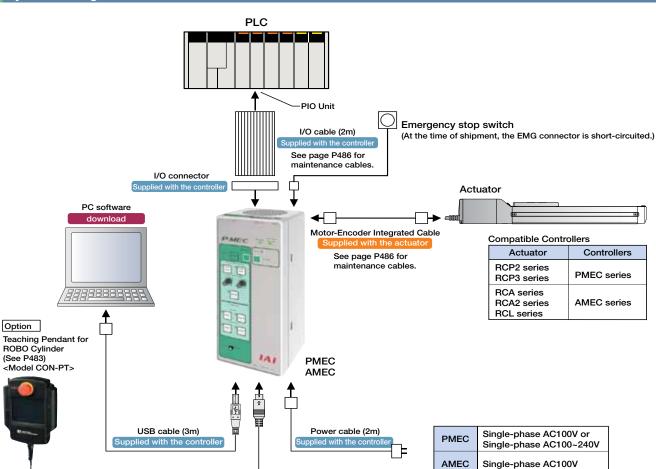




Series	PM	IEC	AMEC
External View			
Applicable actuators	RCP2 / RCP3		RCA / RCA2 / RCL
Power supply voltage	100V	100-240V	100V
Price	_	_	_
Accessories		AC power supply cable (2m) USB cable (3m) I/O cable (2m) I/O connector EMG connector Standard mounting bracket	

Model





I/O Signal Table

Motion Pattern 2-Position Travel		2-Position Travel	3-Position Travel	
Pin No.	Wire Color	Signal Type	Signal Name	Signal Name
1	Brown		24V	24V
2	Red	PIO power	0V	OV
3	Orange		ST0 (Solenoid A: ON moves to end position, OFF moves to home position)	ST0 (Solenoid A: Move signal 1)
4	Yellow	Input	Η	ST1 (Solenoid B: Move signal 2)
5	Green		RES (Alarm reset)	RES (Alarm reset)
6	Blue		Η	_
7	Purple		LS0 (home position detection)/PE0 (home positioning complete)*1	LS0 (home position detection)/PE0 (home positioning complete)*1
8	Gray		LS1 (end position detection)/PE1 (end positioning complete)*1	LS1 (end position detection)/PE1 (end positioning complete)*1
9	White	Output	HEND (Homing complete)	LS2 (intermediate point detection)/PE2 (intermediate positioning complete)*1
10	Black		* ALM (alarm)*2	* ALM (alarm)*2

*1: Signals PE0 through PE2 will be output if the pushing motion was enabled in the initial setting. Otherwise, LS0 through LS2 will be output. *2: * ALM is ON when normal, and OFF when it is activated.

MEC PC software

By using the MEC PC software you can change the stop position data or run a test operation.

In addition, you can change the setting on the intermediate stop function, pushing function or change the coordinates.

The MEC PC software can be downloaded from the IAI website.

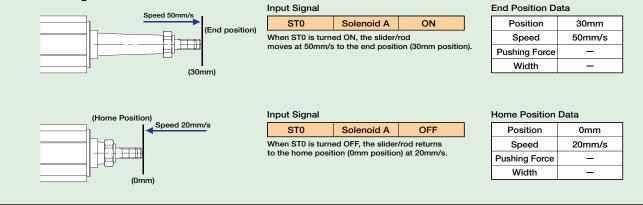
IAI Website: www.intelligentactuator.com

Explanation of PIO Patterns

PIO Pattern (2-position travel)

This motion pattern is between two positions, the home position and the end position. The home and end position can be configured numerically (using the MEC PC software or 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 presses the rod against a workpiece.

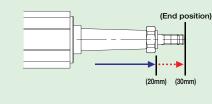
Positioning



PIO Pattern (2-position travel)

This motion pattern is between two positions, the home position and the end position, which enables a pushing motion of the rod against a workpiece.

Push



Input Signal		
ST0	Solenoid A	ON
When the input 0 i the rod to the 20m there, pushes it at	nm position at 80	

End Position Data			
Position	30mm		
Speed	80mm/s		
Pushing Force	50%		
Width	10mm		

En

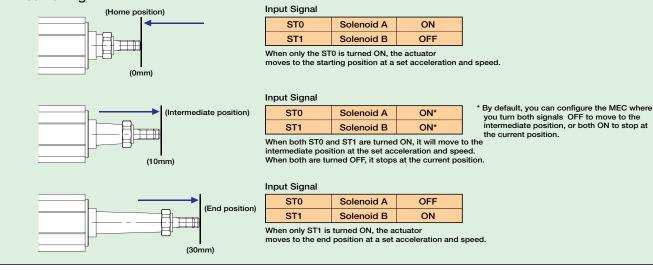
* The pushing motion is performed when there is a numerical value in the controller's push force data. (If there is no numerical value, a positioning motion is performed instead.)

PIO Pattern (3-position travel)

This motion pattern enables moves between three positions: the end position and the home position, as well as an intermediate position.

The positions are switched by combining two signals, ST0 and ST1.

Positioning



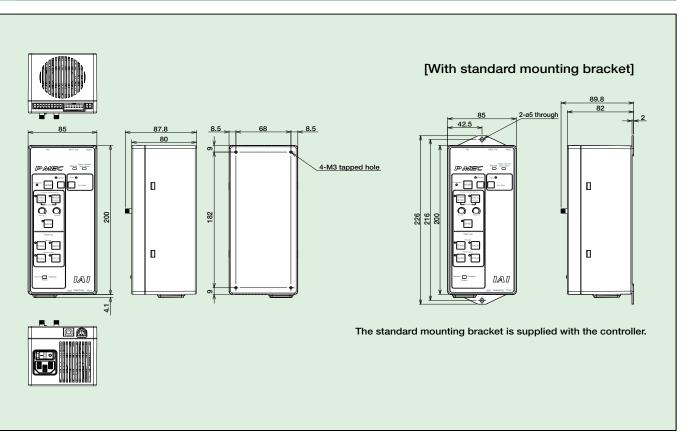
Standard

Specifications Table

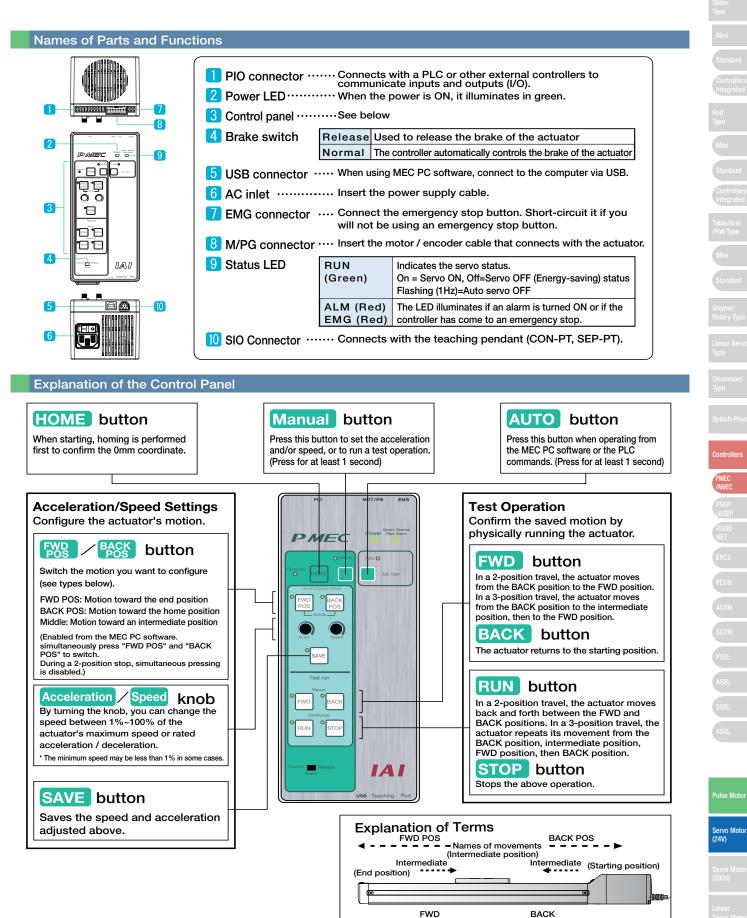
Item	Туре			
Controller Type	PMEC		AMEC	
Connectible Actuators	RCP2/RCP3 Series Actuators		RCA/RCA2/RCL Series Actuators	
Number of Controllable Axes	Single axis			
Operation Method		Positioner Type		
Number of Positions		2 positions / 3 positions		
Backup Memory		EEPROM		
I/O Connector		10-pin terminal block		
I/O Points	4 input points / 4 output points			
Power for I/O	Externally supplied DC24V±10%			
Serial Communication	RS485: 1ch/USB: 1ch			
Position Detection Method	Incremental encoder			
Power Supply Voltage	AC100V-115V±10%	AC90V~264V	AC100V-115V±10%	
Rated Current	1.3A	0.67A (AC100V)/0.36A (AC200V)	2.4A	
Rush Current	30A	15A (AC100V)/30A (AC200V)	15A	
Leak Current	0.50mA max	0.40mA max (AC100V) 0.75mA max (AC200V)	0.50mA max	
Dielectric Strength Voltage	DC500V 1MΩ			
Vibration Resistance	XYZ directions 10~57Hz One-side amplitude 0.035mm (continuous), 0.075mm (intermittent) 57~150Hz 4.9m/s ² (continuous), 9.8m/s ² (intermittent)			
Ambient Operating Temperature		0~40°C		
Ambient Operating Humidity		10~85% RH (non-condensing)		
Ambient Operating Atmosphere		Free from corrosive gases		
Protection Class		IP20		
Weight	500g	508g	614g	

Note: The minimum/maximum speeds vary depending on the actuator model. For more information, see the instruction manual, or contact IAI.

Outer Dimensions



PMEC / AMEC Controller



рмес/амес 482

Actual movement

Option

• Teaching pendant for position controller

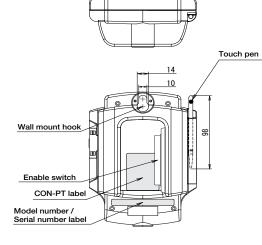
Features Data input device easy-to-operate even for beginners with a simple interactive menu screen. Operation arrangements such as positioning of home, end or intermediate position, setting of speed or push force and movement to jog/inching/order position are available.

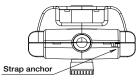
Model/specifications

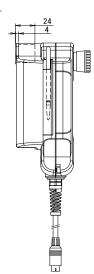
	peemeanone			
Item		Description		
Model	Japanese edition	CON-PT-M		
	English edition	CON-PT-M-ENG		
Туре		Standard		
Function		Input/edit position data Movement functions (move to a specified position, jog, inch) Test input and output signals Edit parameters Switch language (Japanese/English)		
Label		3-color LED with backlight		
Ambient operation	ting temp./humidity	0 ~ 50°C 20 ~85%RH (no condensation)		
Environmental	resistance	IP40		
Weight (includi	ng cable)	750g		
Accessories		Touch pen		
Standard price		_		

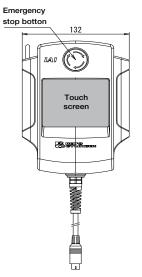
Part names / dimensions

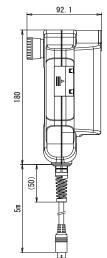




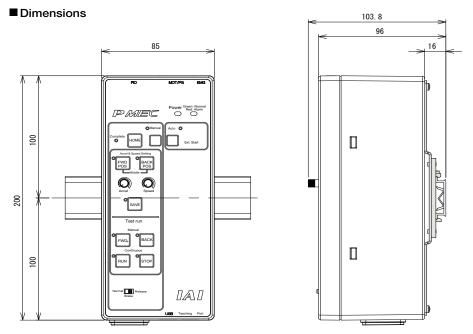








• DIN Rail Mounting Bracket MEC-AT-D



• Maintenance cable

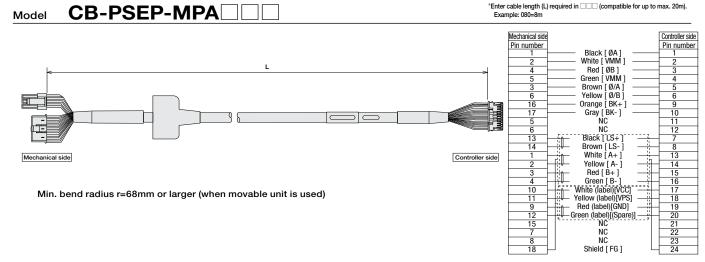
List of maintenance cable models

Туре			Cable length	Model	Standard price
	PMEC ←→ RCP3 RCP2-GRSS/GRLS/ GRST/ SRA4R/SRGS4R/	1m	CB-APSEP-MPA010	_	
		3m	CB-APSEP-MPA030	_	
	AMEC ←→	SRGD4R AMEC ←→ RCA2/RCL	5m	CB-APSEP-MPA050	_
			1m	CB-PSEP-MPA010	-
Integrated motor-encoder cable	PMEC ←→ RCP2	3m	CB-PSEP-MPA030	-	
		5m	CB-PSEP-MPA050	-	
	PMEC ←→ RCP2-RTBS/RTBSL	1m	CB-RPSEP-MPA010	-	
		-RTCS/RTCSL	3m	CB-RPSEP-MPA030	-
			5m	CB-RPSEP-MPA050	-
	AMEC ←→ BCA	1m	CB-ASEP-MPA010	-	
			3m	CB-ASEP-MPA030	-
			5m	CB-ASEP-MPA050	-
		2m	CB-APMEC-PIO020-NC	-	
	I/O cable		3m	CB-APMEC-PIO030-NC	-
			5m	CB-APMEC-PIO050-NC	-
	USB cable		3m	CB-SEL-USB030	_

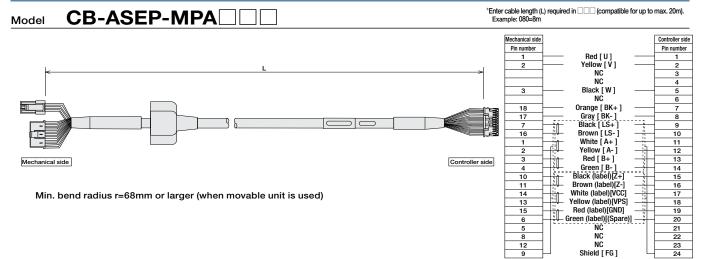
Components for maintenance

Please refer to the models mentioned below when arrangements such as cable replacement are needed after purchasing the product.

[RCP3/RCP2 (for specific models*) /RCA2/RCL]-[PMEC/AMEC] Motor encoder integrated cable for indirect connection * Enter cable length (L) required in ___ (compatible for up to max. 20m). Example: 080=8m CB-APSEP-MPA Model Controller side Mechanical side [PCON](ACON) Black [ØA](U) White [VMM](V) * For RCP2-GRSS/GRLS/GRST/SRA4R/SRGS4R/SRGD4R Pin number Pin number A1 B1 Brown [Ø/A](W) Green [ØB](-) Yellow [VMM](-) A2 B2 A3 B3 Red [Ø/B](Orange [LS+](BK+) A4 B4 Gray [LS-](BK-) Ħ White [-](A+) Yellow [-](A-) Red [A+](B+) 1 A6 B6 12 A7 B7 гÛ 13 Green [A-](B-) Mechanical side Controller side A8 B8 1 Black [B+](Z+) 15 Brown [B-][Z-) Black (label)[BK+](LS+) Brown (label)[BK-](LS-) 16 A5 B5 10 Min. bend radius r=68mm or larger (when movable unit is used) A9 B9 Green (label)GNDLS 20 Red (label)VPS 18 A10 B10 A11 -White (label)VCC 1 ↓ Yellow (label)GND -19 21 Shield FG B11 24 22 NC NC [RCP2]-[PMEC] Integrated motor-encoder connection cable



[RCA]-[AMEC] Integrated motor-encoder connection cable



Servo Moto

Slider Type Mini Standard Controllers Integrated

Rod Type Mini

Standard

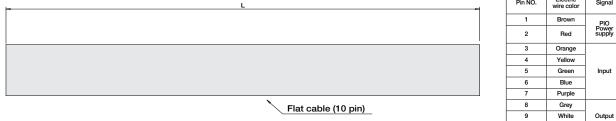
Mini

inear Servo ype

Controllers PAMEC PSEP ASEP ROBO NET ERC2 PCON ACON SCON PSEL ASEL SSEL

Servo Motor (24V)

L Mechanical side Min. bend radius r=68mm or larger (when movable unit is used)	Mechanical side Pin number Biack [OA] B1 White [VMM] B2 Green [OB] A3 Yellow [VMM] B2 Green [OB] A3 Yellow [VMM] B3 Red [A+] A6 Orange [LS+] B7 Green [A-] B8 Back [B+] B4 NC A4 NC B4 NC A5 Biack [B+] B9 From (label)[BK+] A1 Nc A3 Yellow (label)[CC] B10 Yellow (label)[CC] B10 Yellow [Abel][CG] B11 Nc	Controller si Pin numbe 1 2 6 7 8 13 14 15 16 7 8 9 10 20 18 17 19 21 23
I/O cable for PMEC-C/AMEC-C		
	*The 3 types differ in cable length: 020=2m, 030 050=5m	=3m,





10

Black

