



RCP2/RCP3 Program Controller that supports Absolute Unit ABU

# PSEL-C-ABU

The Absolute apacification has been added to these PSEL controllers



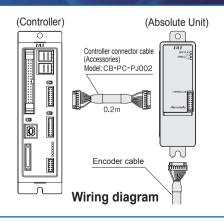




#### **Features**

- Once installed, the simple Absolute Unit ABU eliminates the need for home return. The unit works immediately when connected to a power source.
- The controller can interpolate on two axes.

  The proprietary SEL language enables easy programming of even difficult operations.
- 3 Encoder data can be saved for a maximum of 20 days.



## www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru рушения модел, Flyer No. 0709-E, Version СJ0142-1A

#### Model details When using the 1-axis specification, the 2-axis content is not needed. PSEL-C-0 ABU Type I/O types (1st Axis) (2nd Axis) I/O cable length Power source Simple Absolute Unit connected axes voltage C: Standard type 1: 1 axis specification Motor types Encoder types Options Motor types Encoder types Options 0: no cable 0: DC24V (empty) : unused 2: 2 axis specification I: Incremental B: Brake I: Incremental B: Brake 2: 2m 3: 3m ABU : used 20P: Use with 20 angle pulse motor 28P: Use with 28 angle pulse motor 28SP: Use with 28 angle pulse motor (special-purpose for RCP2-RA3C) 20P: Use with 20 angle pulse motor 28P: Use with 28 angle pulse motor 28SP: Use with 28 angle pulse motor (special-purpose for RCP2-RA3C) NP: PIO NPN specification PN: PIO PNP specification (standard) 35P: Use with 35 angle pulse motor 35P: Use with 35 angle pulse motor DV: DeviceNet connection specification 42P: Use with 42 angle pulse motor 56P: Use with 56 angle pulse motor \*The 28SP motor type is used when 42P: Use with 42 angle pulse motor 56P: Use with 56 angle pulse motor \*The 28SP motor type is used when CC: CC-Link connection specification PR: ProfiBus connection specification

RCP2-RA3C/RGD3C are connected

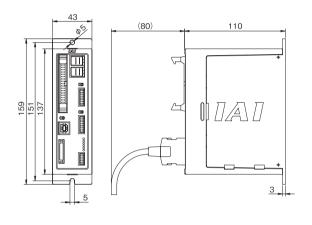
#### PSEL controller specification

Item	Specification			
Connection actuator	RCP2/RCP3 Series Actuators (Note 1)			
Input voltage	DC24V±10%			
Current amperage	Max 5.5A			
Number of controlled axes	1 Axis/2 Axes			
Number of programs	64 points			
Number of program steps	2000 steps			
Number of multitask programs	8 points			
Number of positioning points	1500 points			
Data storage device	FLASHROM (can be added as an optional system memory backup)			
Data input method	Teaching box or personal computer software			
Number of I/O points	Input 24 points / output 8 points (can choose NPN or PNP)			
Serial communications functions	RS232C (Half-pitch connector) / USB connector			
Field network	DeviceNet / CC-Link / ProfiBus support			
Ambient temperature and humidity	0~40°C 10~95% (no freezing)			
Ambient atmosphere	No corrosive gas, no extreme amounts of dust			
IP Code	IP20			
Weight	Approx. 450g			
External dimensions	43mm (W) ×159mm(H) ×110mm (D)			

RCP2-RA3C/RGD3C are connected.

High thrust (RA10C), High speed (HS8C/HS8R) and waterproof (RCP2W-SA16) models cannot operate with this unit.

#### PSEL controller external diagram

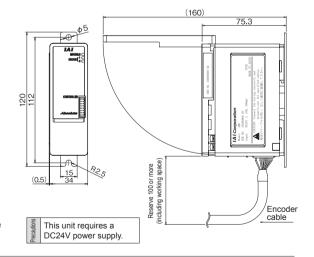


### ABU Absolute Unit specification

Item	Specification				
Model	PCON-ABU				
Connection actuator	RCP3/RCP2 Series(**1)				
Controller connection cable (accessories)	Model CB-PC-PJ002 (0.2m)				
Simple Absolute Unit main unit	Model ABU				
Backup battery (accessories)	Model AB-7 (Ni-MH battery with life of around 3 years)				
Power supply voltage	DC24V±10%				
Power supply amperage	max300mA				
Ambient operating temperature	0~40°C (around 20°C is ideal)				
Ambient operating humidity	95%RH or less (non-conde		non-condensir	ng)	
Operating atmosphere	No corrosive gas, no dust				
Weight	330g				
Permissible number of revolutions when encoder is recording data ( $pprox$ 2)	800rpm	400rpm	200rpm	100rpm	
Position data retention time period (%2)	120h	240h	360h	480h	

- ( % 1 ) This unit cannot be used with the following models: RCP2-RA2C, RA10C, HS8C, HS8R, GRS, RTB, RTC, RCP2W-SA16C
- (%2) This changes according to the value set as the number of permissible encoder revolutions while position data is being recorded. (800rpm →120h/400rpm →240h/200rpm →360h/100rpm →480h)

#### External diagram of the ABU Absolute Unit



- Safety precautions for users
- · During encoder data recording, an error will occur if the actuator slider and rod are moved faster than a predetermined speed. For permissible speed (number of revolutions), please see the ABU Absolute Unit specification noted above.
- The PC software that can be used on the PSEL controller to support the ABU Absolute Unit is program IA-101-X-MW/USB, Ver. 7.4.0.0 or later. For the teaching box, use program IA-T-XA, Ver. 1.50 or later, or SEL-T/TD, Ver.1.09 or later.



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