

Simple Absolute Unit for ACON

# ACON-ABU

Simple Absolute Unit for PCON

# PCON-ABU

By simply connecting to the ACON/PCON controller, the RCA/RCP2 actuator is changed to the basic absolute specifications



Models & pricing:

## ACON-ABU

- Set includes:
- Main unit for simple absolute unit (unit model ABU)
  - Back-up battery (unit model AB-7)
  - Controller connection cable (unit model CB-AC-PJ002)

Models & pricing:

## PCON-ABU

- Set includes:
- Main unit for simple absolute unit (unit model ABU)
  - Back-up battery (unit model AB-7)
  - Controller connection cable (unit model CB-PC-PJ002)

### Features

1

When connecting to an ACON/PCON C, CG, CY, or SE type controller (incremental specifications), the data from the encoder are retained even when the main power to the controller is shut off, so the ABU models can be used as absolute specification models that do not need to be restored to the original point.

2

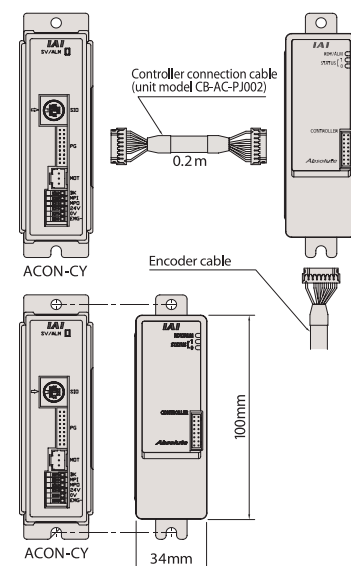
The absolute models are the same size (34 mm wide x 100 mm high x 75.3 mm deep) as the compact CY and SE compact specification models, so they can even be installed in confined spaces.

3

Encoder data can be retained for up to 20 days.

Caution

While the encoder data are retained, if the actuator slider or rod are moved faster than a certain speed, an error is generated. Please see the specifications on the back for the allowable speed (number of rotations).



## Specifications

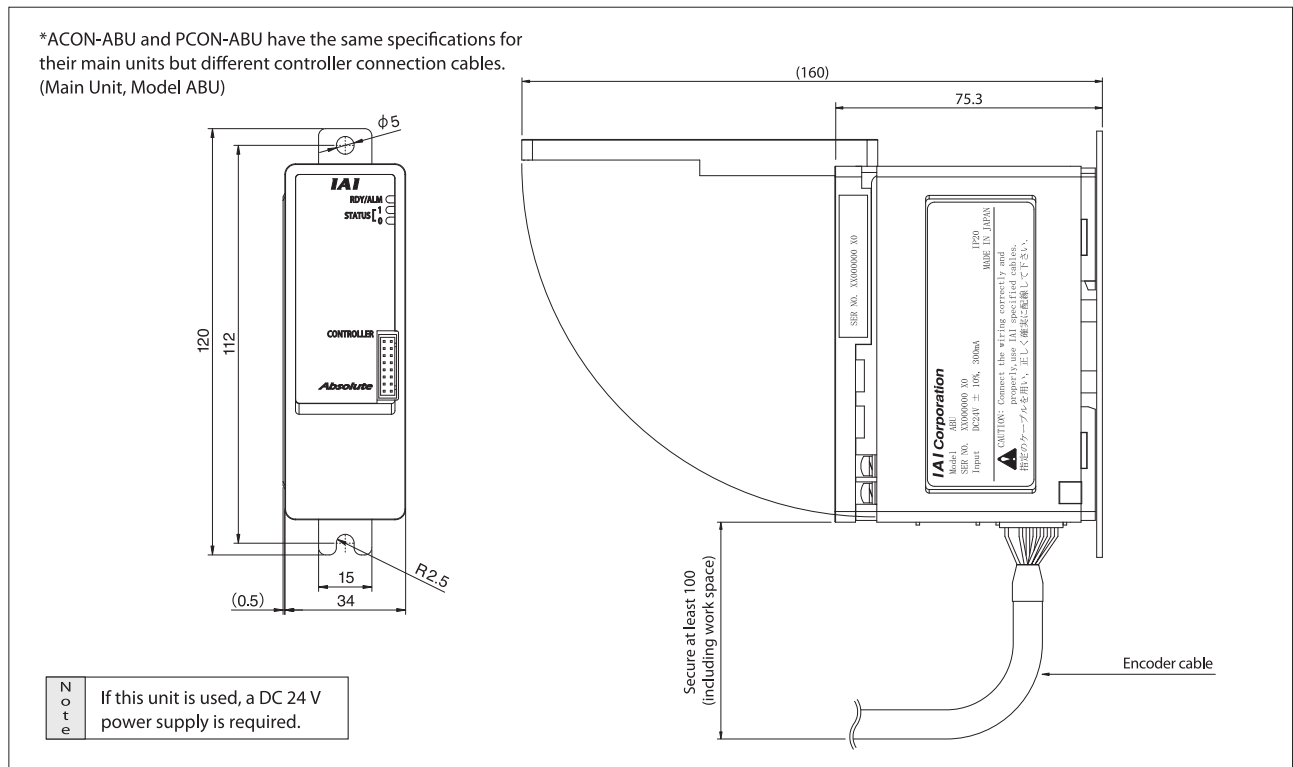
Component	Specifications			
Model	ACON-ABU		PCON-ABU	
Connecting controller	ACON-C/CG/CY/SE		PCON-C/CG/CY/SE	
	Note: When procuring a controller to connect with the simple absolute unit, add -ABU to the end of the controller model designation. Example: ACON-C-20 I-NP-2-0-ABU			
Connecting actuator	RCA Series		RCP2 Series (*2)	
Controller connection cable (included)	Model CB-AC-PJ002 (0.2 m)		Model CB-PC-PJ002 (0.2 m)	
Main unit, simple absolute unit	Model ABU			
Back-up battery (included)	Model AB-7 (NiMH battery, life of approximately 3 years)			
Power supply voltage	DC24V±10%			
Power supply current	max300mA			
Ambient operating temperature	0 to 40°C (About 20°C is desirable)			
Ambient operating humidity	95% RH or less (no condensation)			
Ambient operating environment	No corrosive gases, no dust			
Mass	330g			
No. of allowable cycles for encoder while data is retained (*3)	800rpm	400rpm	200rpm	100rpm
Positioning data retention time (*3)	120h	240h	360h	480h

(\*1) The standard price includes a set consisting of the main unit for the simple absolute unit, back-up battery, and controller connection cable.

(\*2) Cannot be used for RA2C, RA10C, GRS, GRM, GR3LS, GR3SM, RTB, RTC, or RCP2W-SA16C.

(\*3) Positioning data retention time varies based on the allowable number of rotations for the encoder while the data are retained. (800rpm→120h/400rpm→240h/200rpm→360h/100rpm→480h)

## External View & Dimensions



IAI America, Inc.

Headquarters: 2690 W. 237th Street Torrance, CA 90505 (800) 736-1712

Chicago Office: 1261 Hamilton Parkway Itasca, IL 60143 (800) 944-0333

Atlanta Office: 1220 Kennestone Circle, Suite E Marietta, GA 30066 (888) 354-9470

IAI Industrieroboter GmbH

IAI (Shanghai) co., Ltd.

[www.intelligentactuator.com](http://www.intelligentactuator.com)



Subject matter in this catalog may change without notice due to product improvements.