

PCON-ABU ACON-ABU



Simple absolute unit
For PCON / ACON controller

Features

1

When attached to a ACON/PCON-C, -CG, -CY, or -SE (incremental) controller, the data from the encoder is retained even after the controller's main power has been turned OFF, allowing you to use it as an absolute model, which does not require homing at power-up.

* Cannot be used for ACON/PCON-PL or PO types.

Caution:

The encoder type for the actuators and controllers with a simple absolute unit is "I" (incremental) and not "A" (absolute).

2

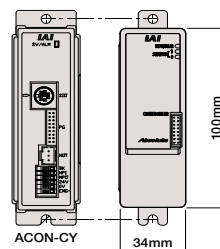
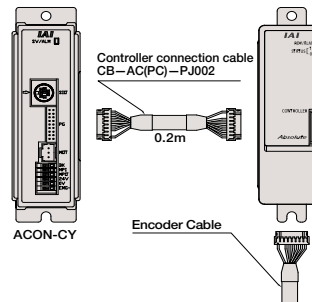
Having the same size as the CY and SE compact controllers (W 34mm x H 100mm x D 75.3mm), it can be installed in a small space.

3

Encoder data can be retained up to 20 days.

Caution:

An error will occur if the actuator's slider or rod is moved faster than the fixed speed, while the encoder data is retained. Check the specifications table on page 546 for the allowable speed (rotations).



Models

	For PCON controller	For ACON controller
Model	PCON-ABU	ACON-ABU

Connectable actuator

The simple absolute unit is available for the following actuators. (Models other than following models are not available.)

Corresponding series	Reference
RCP3 series	Corresponding to all models
RCP2 series	Corresponding to all models other than HS8C/HS8R/RA10C.
RCP2 CR series	Corresponding to all models other than HS8C.
RCP2 W series	Corresponding to all models other than SA16C/RA10C.
RCA2 series	Corresponding to all models
RCA series	Corresponding to all models
RCA CR series	Corresponding to all models
RCA W series	Corresponding to all models

545

PCON-ABU/ACON-ABU

Specifications

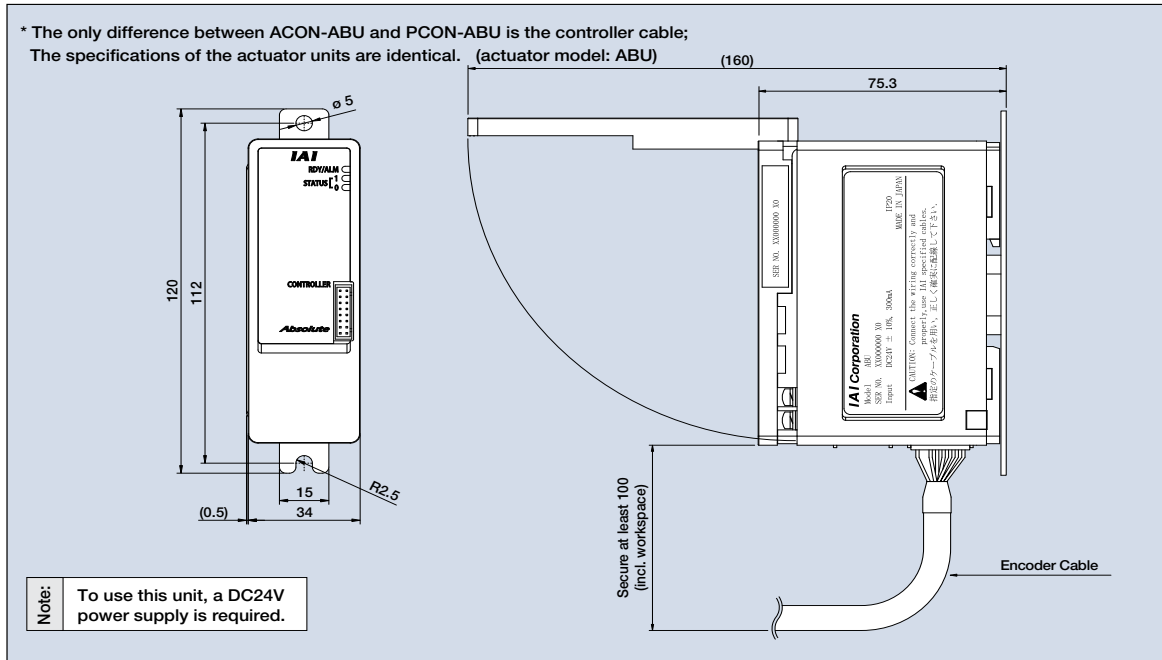
Item	Details			
Model	ACON-ABU		PCON-ABU	
	ACON - C / CG / CY / SE		PCON - C / CG / CY / SE	
Connecting controller	(Caution) When choosing a controller to connect with the simple absolute unit, add "-ABU" to the end of the controller model designation. Ex. ACON - C 20I - NP - 2 - 0 - ABU			
Connecting actuator	RCA2 / RCA series		RCP3/RCP2 series (*1)	
Controller connection cable (included accessory)	Model CB - AC - PJ002 (0.2m)		Model CB - PC - PJ002 (0.2m)	
Simple absolute unit	Model ABU			
Backup battery (included accessory)	Model AB - 7 (Ni - MH battery / Life: approx. 3 years)			
Power supply voltage	DC24V±10%			
Power supply current	Max. 300 mA			
Ambient operating temperature	0 to 40°C (approx. 20°C is preferred)			
Ambient operating humidity	95% RH or lower (non-condensing)			
Ambient operating atmosphere	Without corrosive gases, without dust			
Weight	330g			
Allowable encoder RPM during data retention (*2)	800 rpm	400 rpm	200 rpm	100 rpm
Position data retaining time (*2)	120h	240h	360h	480h

(*1) Cannot be used with RCP2-RA10C/HS8C/HS8R/RCP2W-SA16C

(*2) Position data retention time changes with the allowable encoder RPMs during data retention.

(800rpm → 120h / 400rpm → 240h / 200rpm → 360h / 100rpm → 480h)

External dimensions



- Slider Type
- Mini
- Standard
- Controllers Integrated
- Fcd Type
- Mini
- Standard
- Controllers Integrated
- Table/Arm /FlatType
- Mini
- Standard
- Gripper/ Rotary Type
- Linear Servo Type
- Cleanroom Type
- Splash-Proof
- Controllers
- PMEC /AMEC
- PSEP /ASEP
- ROBO NET
- ERC2
- PCON
- ACON
- SCON
- PSEL
- ASEL
- SSEL
- XSEL
- Pulse Motor
- Servo Motor (24V)
- Servo Motor (200V)
- Linear Servo Motor