

- Slider Type
- Mini
- Standard
- Controllers Integrated
- Rod 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



# PCON-ABU ACON-ABU

Simple absolute unit  
For PCON / ACON controller

## Features

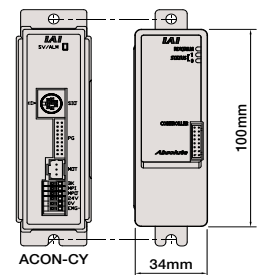
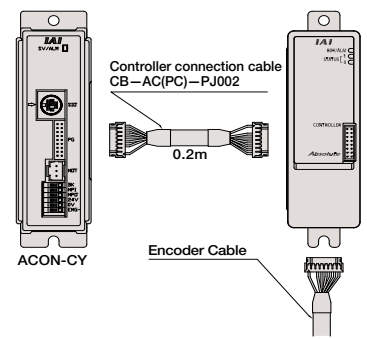
**1** When attached to a ACON/PCON-C, -CG, -CY, or -SE (incremental) controller, the data from the encoder is retained even after the controller's main power has been turned OFF, allowing you to use it as an absolute model, which does not require homing at power-up.  
\* Cannot be used for ACON/PCON-PL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

- Pulse Motor
- Servo Motor (24V)
- Servo Motor (200V)
- Linear Servo Motor

## Specifications

| Item   | Details  |  |                              |  |
|--|--|--|------------------------------|--|
| Model  | ACON-ABU   |  | PCON-ABU                     |  |
|  | ACON - C / CG / CY / SE  |  | PCON - C / CG / CY / SE      |  |
| Connecting controller                            | <b>Caution:</b> 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 - <u>ABU</u> |  |                              |  |
| 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

