Controller - Integrated Type

Slider Type

Rod Type

Arm / Flat Type

Gripper / Rotary Type

Cleanroom Type

Splash Proof Type

Controller

ACON-/PCON-ABU Controller Module

ABU

Absolute unit

Module for ACON and PCON controller

Features

1 Easy Change from Incremental to Absolute Encoder Type

Only connecting to ACON/PCON, RCA/RCP2 actuators incremental version will function as absolute version (with back-up battery). ACON/PCON-ABU set includes ACON/PCON-ABU unit, back-up battery (AB-7) and cable connected to controller (CB-AC/PC-PJ002).

* Caution: An error will be indicated when sliders or rod of the actuators move faster than specified speed. Please refer to the specified speed (allowable rotation per minute) in the specification table.
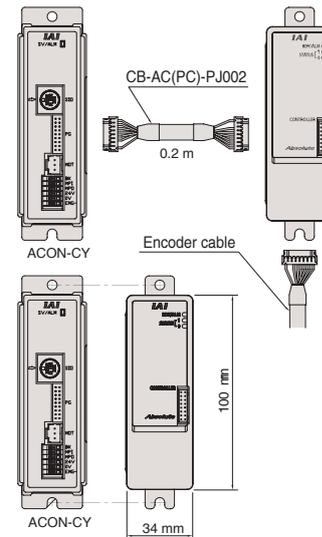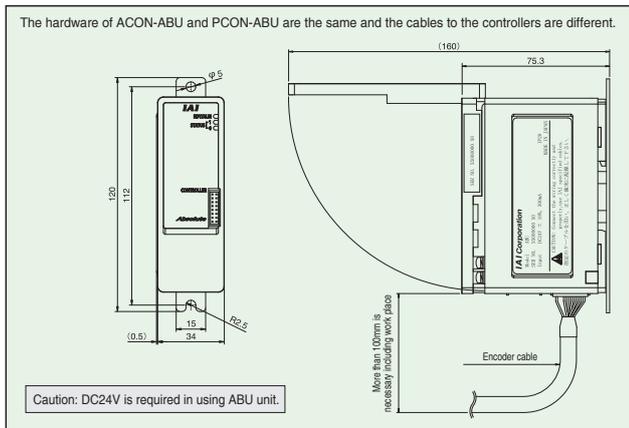
2 No Home Return necessary

By connecting with ACON/PCON-C, -CG, -CY or -SE type the current position of system will be held even if power is disconnected, the actuator can operate immediately without homing. Encoder data can be saved as long as 20 days.

3 Small Size like as Controller Types SE/CY

It is as compact as CY and SE controller types (width 34 mm, height 100 mm, length 75.3 mm), so space and cost can be saved.

External Dimensions

The hardware of ACON-ABU and PCON-ABU are the same and the cables to the controllers are different.

Caution: DC24V is required in using ABU unit.

Encoder cable

Move than 100mm is necessary including work place

CB-AC(PC)-PJ002
0.2 m

Encoder cable

ACON-CY

ACON-CY   34 mm

100 mm

Controller Models

Gateway unit

Absolute Unit / Touch Panel

ERC2

PCON

ACON

SCON

PSEL

ASEL

SSEL

XSEL

Specification Table

Item	ACON-ABU		PCON-ABU	
Controller type to be connected	ACON-C/CG/CY/SE		PCON-C/CG/CY/SE	
	In ordering controllers to be connected to ABU unit, please add "-ABU" at the end of controller type name, e.g. "ACON-C-20I-NP-2-0-ABU"			
Connected actuators	RCA series		RCP2 series *1	
Cables connected to controller	CB-AC-PJ002 (0.2 m)		CB-PC-PJ002 (0.2 m)	
Backup battery (included in a set)	AB-7			
Power voltage	DC24V ±10%			
Power capacity	max. 300mA			
Ambient Temperature	0~40°C (at best 20°C)			
Ambient Humidity	95% RH (non-condensing)			
Environment	No corrosive gas, no dust			
Weight	330 g			
Allowable encoder rotation per minute *2	800 rpm	400 rpm	200 rpm	100 rpm
Position data retainable hours *2	120h	240h	360h	480h

*1 ABU unit does not function for types RA2C, RA10C, GRS, GRM, GR3LS,GR3LM, GR3SS, GR3SM, RTBL, RTCL and RCP2-W-SA16.
*2 Position data retainable hours varies by allowable rotation per minute.

293 ACON-/PCON-ABU