

# Harmonic Drive Systems Inc.

## AC Servo Drivers HA-800B series

### Features

- Shorter positioning stabilization time using original control logic  
By utilizing the characteristics of HarmonicDrive in the control logic, positioning overshoot and undershoot are suppressed and the positioning stabilization time is reduced significantly.
- Adopting an I/O signal function assignment method  
Desired functions can be selected from a wide range of functions and assigned to I/O signals according to specific applications.  
Also, multiple functions can be assigned to a single input terminal for an input signal, which adds to usability.
- Auto-tuning function  
The auto-tuning function allows the driver to estimate the load and automatically set an appropriate servo gain on the test mode.



HA-800B series

### Specifications

Item		Specifications
MECHATROLINK	Profile	MECHATROLINK- II
	Address	41H to 5FH
Input Voltage	Control	AC100V to 115V (Single phase) or AC200V to 230V (Single phase) +10 to -15%
	Control	AC100V to 115V (Single/Three phase) or AC200V to 230V (Single/Three phase) +10 to -15% (By the actuator)
Control method		Sine wave PWM
Encoder		Lesswire incremental, 14wire incremental, 13bitAbsolute, 17bitAbsolute
Encoder monitor		A, B, Z line driver output
I/O signal		IN:5 OUT:4 Insulation by photo coupler
Security function	Alarm	Emergency stop, overspeed, overload, IPM error (overcurrent), Encoder error, Over position, Memory error, FPGA error
	Warning	Battery voltage Low, Over Load, FAN stop, Main Power voltage Low, MECHATROLINK command data error, MECHATROLINK command error, Comunication error, Forward stop, Reverse stop
Control mode		Position, Speed, Trqu (By the MECHATROLINK)

### MECHATROLINK specifications

		M- I	M- II	
		17-byte	17-byte	32-byte
Command	Servo	-	×	×
Transmission cycle		1ms, 1.5ms, 2ms, 3ms, 4ms, 5ms		

### Contact Information

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