

Programmable Controllers
FP2/FP2SH
Positioning Units (Interpolation Type)

A single unit covers both interpolation control and synchronized operation.



- Features
- Synchronized operation is supported in addition to linear, circular, and helical interpolation controls. Ideal for palletizing, pick-and-place operations, coil winding machines, transfer equipment, etc.
 - Open collector and line driver types are available. The line driver type is recommended for high-speed pulse outputs, higher reliability, or long-distance wiring.
 - Configurator PM facilitates settings, reducing the number of man-hours required for startup. The dedicated setting software reduces the ladder programming labor and supports quick startup.
 - Speed command of a maximum of 4 Mpps (line driver) The industry fs fastest class 4-Mpps output allows for use in high-speed transfer equipment.
 - Sufficient number of positioning tables: 600 points/axis The sufficient number of tables is effective for complicated processing or high-mix production

Specifications

Functions	2-axis type	4-axis type
Interpolation control	Two-axis linear/circular, two-axis synchronized	Two-axis linear/circular, three-axis linear/helical, two-axis synchronized
Positioning method	Absolute/Incremental positioning	
Positioning unit	pulse / 1 μm / 0.1 μm / 0.0001 inch / 0.00001 inch / 1 degree / 0.1 degree	
Positioning command range	-1,073,741,823 to 1,073,741,823 × Positioning unit	
Speed command range	pulse: 1 to 32,767,000 pps μm: 1 to 32,767,000 μm/s inch: 0.001 to 32,767.000 inch/s degree: 0.001 to 32,767.000 rev/s	
Acceleration/deceleration method	Linear/S-curve acceleration and deceleration	
Acceleration/deceleration time	Acceleration: 0 to 10,000 ms (in increments of 1 ms) Deceleration: 0 to 10,000 ms (in increments of 1 ms)	
Number of positioning tables	Each axis: 600 points (standard area), 25 points (expansion area)	
Startup speed	3 ms max. (standard area), 5 ms max. (expansion area)	
Manual operation	JOG operation, home return, pulser operation (with pulser input)	
Home return method	Home proximity (dog): 3 types, Limit: 2 types, Data setting, Z-phase	
Internal current consumption/ Max. number of connectable units	300 mA max. (5 V DC) / 15 units max. [Requirements: 5 A output type power supply + FP2-C1 + H type backplanes (Master: 1, Expansion: 1)]	

Product name / Model No.

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FP2 Positioning Units (Interpolation Type)	2 axes	Open collector	AFP243710
		Line driver	AFP243711
	4 axes	Open collector	AFP243720
		Line driver	AFP243721
Control Configurator PM	Japanese	Position data setting, interpolation/synchronization axis setting, JOG operation control, status check, etc.	AFPS66110
	English		AFPS66510