FP2SH

Operation speed: 30 ns	Maximum I/O points: 2,048 points	Program capacity: Max. 120 k steps	Positioning: network servo, Max. 256 axes	Positioning: pulse output 4 Mpps, start up: 0.005 ms

Scanning time of 1 ms for 20 k steps. A high-performance model for high-speed operation.

Features

● **Scanning time of 1 ms for 20 k steps**
The program of 20 k steps can be executed in 1 ms. The result is a dramatically decreased tact time and high-speed device.

● **Large programming capacity of up to 120 k steps.**
Both the large programming capacities of 32 k, 60 k and 120 k are available depending on the model.

● **Optional small PC card is also available.**
The small PC card is available for programming backup or data memory expansion. This allows data processing of great amounts of data.

● **Built-in comment and calendar timer functions.**
These functions, options with the FP2, are built right into the FP2SH.
* The I/O units and intelligent units are the same for the FP2 series.

SPECIFICATIONS

■ Power supply and I/O specifications

Item	Specifications
Power supply	100 to 120 V AC, 200 to 240 V AC, 100 to 240 V AC, 24 V DC (varies with different units)
Input	12 to 24 V DC, 24 V DC ± common
Output	Relay output: 2 to 5 A, Transistor output: 0.1 to 0.5 A (varies with different units)

■ Performance specifications

Item		Specifications
Number of controllable I/O points		Up to 768 points
Expansion	Standard	Up to one backplane, Max. 25 units I/O points: Max. 1,600 points Remote I/O points: Max. 8,192 points
	H type	Up to three backplanes, Max. 32 units I/O points: Max. 2,048 points Remote I/O points: Max. 8,192 points
Operation speed		0.03 μs / step (for basic instuction)
Built-in memory		RAM (ROM / small PC card is optional)
Memory capacity		32 k steps approx. / 60 k steps approx. / 120 k steps approx. (varies with different units)
Operation memory	Internal relay	14,192 points
	Timer / Counter	3,072 points in total
	Data register	10,240 words
	File register	32,765 words (32 k steps) 32,765 words × 3 (60 k / 120 k steps)

■ Supported functions

Item	Specifications
Analog I/O	Available by adding analog input and analog output units.
High-speed counter	Available by adding high-speed counter unit. (Max. 200 kHz)
Positioning	Available by adding positioning unit. (Max. 4 Mpps) * The RTEX-compatible positioning unit is also available.
Serial communication — RS232C port	Standard equipped with CPU unit. Expandable by adding C.C.U., serial data unit and M.C.U.
Serial communication — RS422 or RS485	Expandable by adding M.C.U.
Interrupt input	Available by adding high-speed counter unit or pulse I/O unit.

■ Supported networks

Item	Specifications
Remote I/O	S-LINK, S-LINK V or MEWNET-F
PLC link	MEWNET-W2 (Wire), MEWNET-WO, MEWNET-VE or FL-NET
Computer link	Linkable by using tool port or COM. port on CPU unit. Also available by adding M.C.U. and C.C.U.
Modem connection	Available

■ Other built-in functions

Item	Specifications
Program edition during RUN	Available
Constant scan	Available
Clock / Calendar	Built-in type