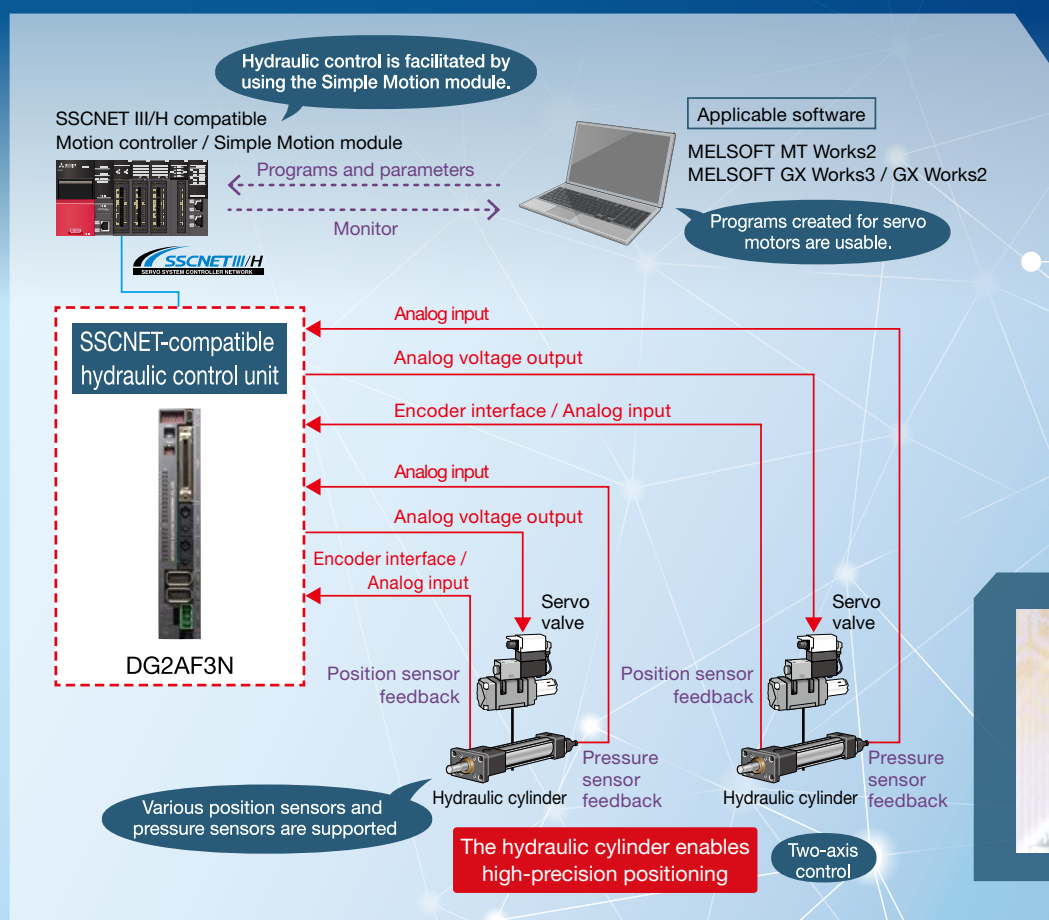


SSCNET-compatible hydraulic control unit

MODEL : DG2AF3N, DG2AF3N-P01

Recommended for manufacturers and system integrators utilizing hydraulic systems

Synchronous operation of hydraulic cylinders made simple with the SSCNET-compatible hydraulic control unit



Application examples :

- Presses
- Injection molding machines



The hydraulic cylinder enables high-precision positioning

Various position sensors and pressure sensors are supported

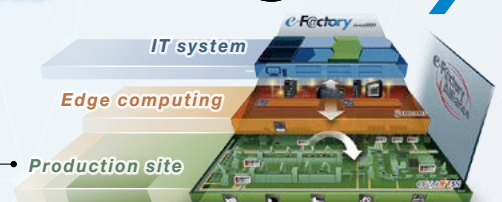
Pressure control enabled without the need for an analog module

A single hydraulic control unit enables two-axis control

FA products **e-Factory**



Network device



Source: Mitsubishi Electric Corporation

■ Performance specifications

Item	Performance specifications	
	SSCNET-compatible hydraulic control unit	
	DG2AF3N	DG2AF3N-P01
Analog input	Analog voltage input 0 to 10 V, -10 to 10 V, 4 points Resolution: 16 bits max.	Analog current input 4 to 20 mA, 4 points Resolution: 16 bits max.
Analog voltage output	0 to 10 V, -10 to 10 V, 4 points Resolution: 16 bits max.	
Number of control axes	Two	
SSCNET III/H communication cycle	SSCNET III(H) 0.222 ms to 0.888 ms	
Encoder interface	Serial encoder manufactured by Mitsubishi Electric, A/B/Z-phase differential input, SSI* (binary code), 2 points max.	
Digital input for emergency stop	24 V DC, 1 point, photocoupler isolation, independent common (sink/source selectable)	
Digital input	24 V DC, 12 points, photocoupler isolation (sink/source collectively selectable for the common)	
Digital output	24 V DC, 8 points, photocoupler isolation (sink/source collectively selectable for the common)	
ABS serial encoder battery	MR-J3BAT manufactured by Mitsubishi Electric (also used for MR-J3 servo amplifiers, only required if using the ABS function)	
Power supply	Voltage	20.4 to 26.4 V DC (ripple rate within 5%)
	Current consumption	0.3 A
Compliance with global standards	CE, UL/cUL	
Structure	Natural cooling, open (IP20)	
Installation	Screw type	M5 × 10 mm or more, tightening torque: 78 to 118 N·cm
	DIN rail	Applicable DIN rail: TH35-7.5Fe, TH35-7.5Al (IEC60715 compliant)
External dimensions (mm)	168 (H) × 30 (W) × 100 (D)	
Mass (kg)	0.3	
Operating ambient temperature	0 to 55°C	
Storage ambient temperature	-25 to 75°C	

* Synchronous Serial Interface

■ Connectable Motion controllers and main operating systems

Compatible Motion controller	Main operating system
Q173DSCPU	SW8DNC-SV22S84QJ
Q172DSCPU	SW8DNC-SV22S84QL
Q170MSCPU(-S1)	SW8DNC-SV22S84QN

* Each of the Motion controllers shown above uses a customized operating system for its main operating system.

■ Compatible Simple Motion modules and supported versions


Simple Motion module	Serial number
QD77MS□	First 5 digits: 20052 or later
LD77MS□	First 5 digits: 20072 or later
RD77MS□	First 2 digits: 12 or later

■ Product line


Name	Model	Description
SSCNET-compatible hydraulic control unit	DG2AF3N	Two-axis control of two SSCNET III/H stations per unit
	DG2AF3N-P01	

■ Related products


Junction terminal blocks for servo amplifiers




Network amplifier junction terminal block



FLS/RLS/DOG signal-specialized network amplifier terminal block



Junction terminal block for servo motors with brakes



General-purpose interface amplifier junction terminal block

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