

1-2 System Configurations

1-2-1 Unit types

3G3RV-P10ST Units

Item	3G3RV-P10ST8-E	3G3RV-P10ST8-DRT-E
PLC core	CPM2C-S	CPM2C-S
Inputs	6 24 VDC inputs	6 24 VDC inputs
Outputs	4 sourcing transistor outputs	4 sourcing transistor outputs
Peripheral port	Yes	Yes
RS-232C port	Yes	Yes
RS-422/485 port	Yes	Yes
Calendar/Clock	Yes	Yes
Memory backup	Flash memory and battery	Flash memory and battery
CompoBus/S master interface	Yes	Yes
Encoder interface	Yes	Yes
DeviceNet slave interface	No	Yes

2-1 Specifications

2-1-1 General Specifications

Item		Specifications	
		3G3RV-P10ST8-E	3G3RV-P10ST8-DRT-E
Rated power supply voltage		24 VDC $+10\%$ / -15% (External power supply for I/O)	
Communications power supply voltage		---	11 to 25 VDC (supplied by DeviceNet connector)
Power Consumption	Internal power supply	2W (Supplied internally) (see note.)	3W (Supplied internally) (see note.)
	Communications power supply	---	30 mA max.
Vibration resistance		10 to 20 Hz, 9.8 m/s ² max. 20 to 50 Hz, 2 m/s ² max	
Ambient operating temperature		-10 to 45 °C	
Ambient operating relative humidity		10% to 90% (no condensation)	
Ambient storage temperature		-20 to 70 °C	
Atmosphere		Must be free from corrosive gas	

Note The above figure for power consumption includes the power consumption of the Programming Console.

2-1-2 Characteristics

Item		Specifications
Control method		Store program method
I/O control method		Cyclic scan method
Programming language		Ladder chart method
Instruction length		1 step/1 instruction; 1 to 5 words/1 instruction
Instruction types	Basic	14 types (Same as for Programmable Slaves.)
	Special	105 types, 185 instructions (Same as for Programmable Slaves.)
Processing speed	Basic instructions	0.64 μs (LD)
	Special instructions	7.8 μs (MOV)
Program capacity		4,096 words
Maximum number of I/O points		10
Input bits		00000 to 00005 (6 physical inputs)
Output bits		01000 to 01003 (4 physical outputs)
CompoBus/S input bits		128 bits: IR 02000 to IR 02715 (Bits not used for CompoBus/S input bits can be used for work bits.)
CompoBus/S output bits		128 bits: IR 03000 to IR 03715 (Bits not used for CompoBus/S output bits can be used for work bits.)
Inverter interface bits		176 bits: IR 20000 to IR 21015
Encoder interface bits		48 bits: IR 02900 to IR 02915 and IR 04800 to IR 04915
Work bits		448 bits: IR 02800 to IR 02815, IR 03800 to IR 04715, and IR 21100 to IR 22715
Special bits (SR area)		448 bits: SR 22800 to SR 25507 (words SR 228 to SR 255)
Temporary bits (TR area)		8 bits (TR 0 to TR 7)