

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.)
	Communications power supply	3W (Supplied internally) (see note.)
		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)	