Multi-channel Power Controller
G3ZA

CSM_G3ZA_DS_E_6_2

Optimum Cycle Control for High-precision Control with Low Noise

- Smaller than a Normal Power Controller.
- Enables low-noise power control in combination with zero-cross SSRs. (See note.)
- One Controller can control up to 8 SSRs.
- RS-485 communications to set manipulated variables and heater burnout detection. The Smart FB Library for the G3ZA can also be used.
- CE Marking

Main Upgraded Functions

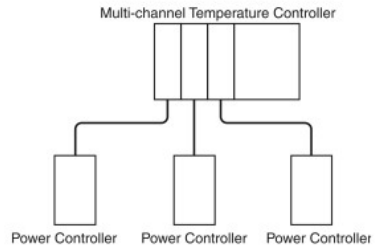
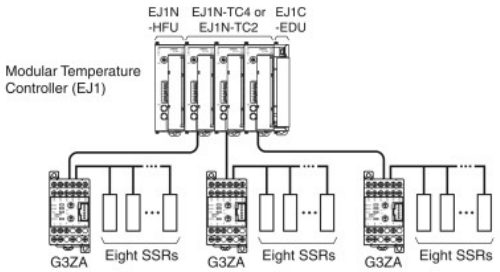
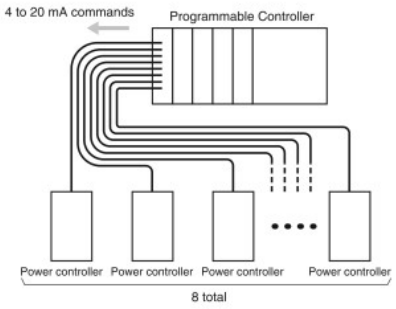
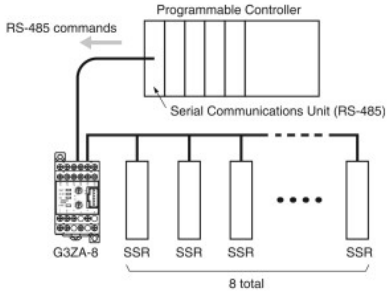
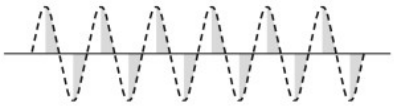
- Soft-start function added for lamp heaters.
- Three-phase optimum cycle control added for three-phase heaters.
- Combining with special CT for150-A current detection.

Note: The G3ZA must be used in combination with an SSR without the zero cross function when the soft-start function is used.

⚠ Refer to *Safety Precautions* on page 9.

Features

Comparison between the G3ZA and Normal Power Controllers

Item	Normal Power Controllers	G3ZA
Connections	**Power Controllers Controlled Using Current Output of 4 to 20 mA** 	**Control Using Communications from a Host Device** • Direct connection is possible using an EJ1 Modular Temperature Controller. 
		
Control method	**Phase Control** • Response is fast and high-precision temperature control is possible. • Harmonics and noise are problems. 	**Optimum Cycle Control (High-precision Zero Cross Control)** • Outputs are turned ON and OFF each half cycle. • Zero-cross control is performed. • Noise is suppressed while achieving high-speed response with high-precision temperature control.