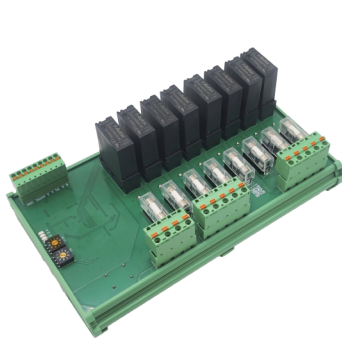
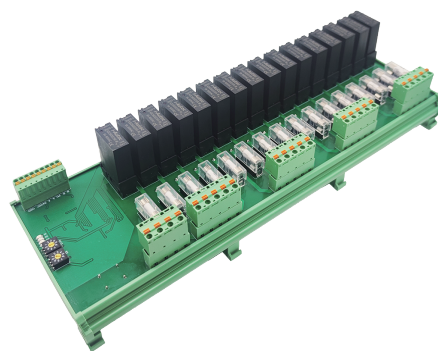


Product Description

- ◆ RS 485 Bus Control
- ◆ Modbus RTU Communication Protocol
- ◆ 8-channel or 16-channel output
- ◆ LED Indication
- ◆ Current detection
- ◆ Built in Fuse
- ◆ 35mm Standard Din-rail Mount



DRP8... Series



DRP16... Series



Product Selection

DRP	16	S	380	P	-S4	C
DRPP Series	Channel 8: 8 Channels 16: 16 Channels	Function S: Stabilized Output	Load Voltage 220: 220VAC 380: 380VAC	Output Mode P: Power Proportional Output	Control Mode S4: RS 485	C: Current Detection

Technical Specifications

Input Specifications	
Auxiliary Power Supply Voltage Range	19.6~28.8VDC
Max.Auxiliary Power Supply Current	700mA@24VDC
Input Control	RS 485

Output Specifications		
Voltage Range of Load Power Supply	220VAC	150~280VAC
	380VAC	150~440VAC
Output Load Voltage Range	220VAC	0~220VAC
	380VAC	0~380VAC
Max. Output Current for Single Channel	5A ⁽¹⁾	

Note: (1) Forced air cooling is required.

General Specifications			
Control Register Address	DRP8... Series DRP16... Series	1-Channel	50
		2-Channel	51
		3-Channel	52
		4-Channel	53
		5-Channel	54
		6-Channel	55
		7-Channel	56
		8-Channel	57
	DRP16... Series	9-Channel	58
		10-Channel	59
		11-Channel	60
		12-Channel	61
		13-Channel	62
		14-Channel	63
		15-Channel	64
		16-Channel	65

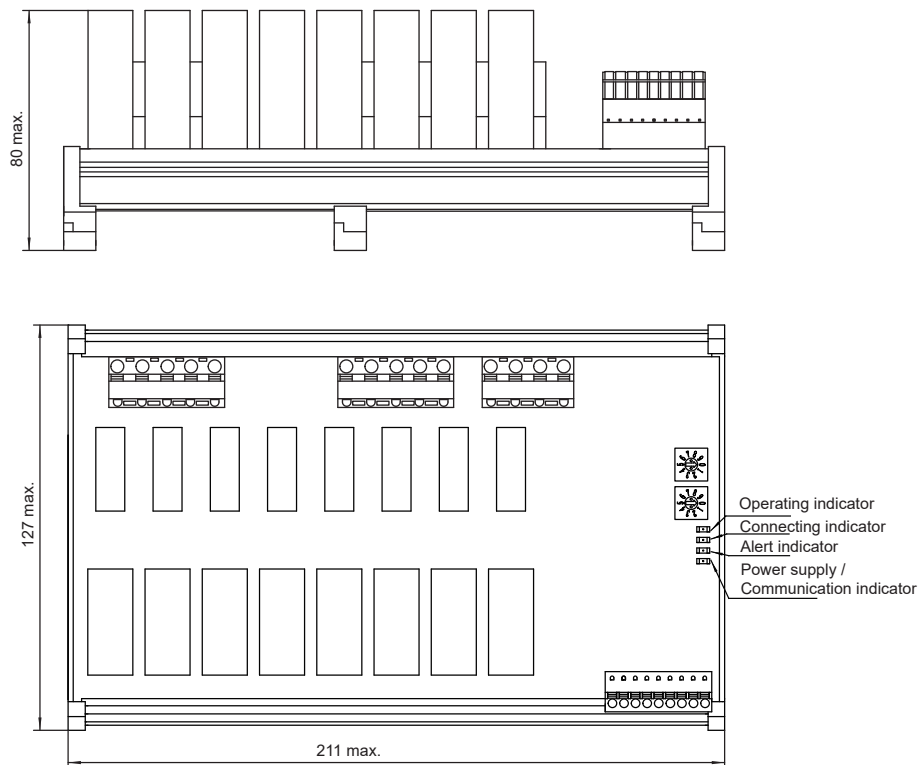
General Specifications		
Switch Register Address		68
Station Address Range		1~98
Maximum Number of Nodes		98
Communication Protocol		Modbus RTU
Dielectric Strength		≥2500Vrms
Ambient Temperature Range		-30°C ~ +70°C
Storage Temperature Range		-30°C ~ +100°C
Weight (Typical)	DRP8... Series	607g
	DRP16... Series	1070g

Applications

The heating occasions requiring multi-channel voltage regulation control, such as the heating control of Hot Runner System and Blow Molding Machine.

Outline Dimensions

Unit: mm



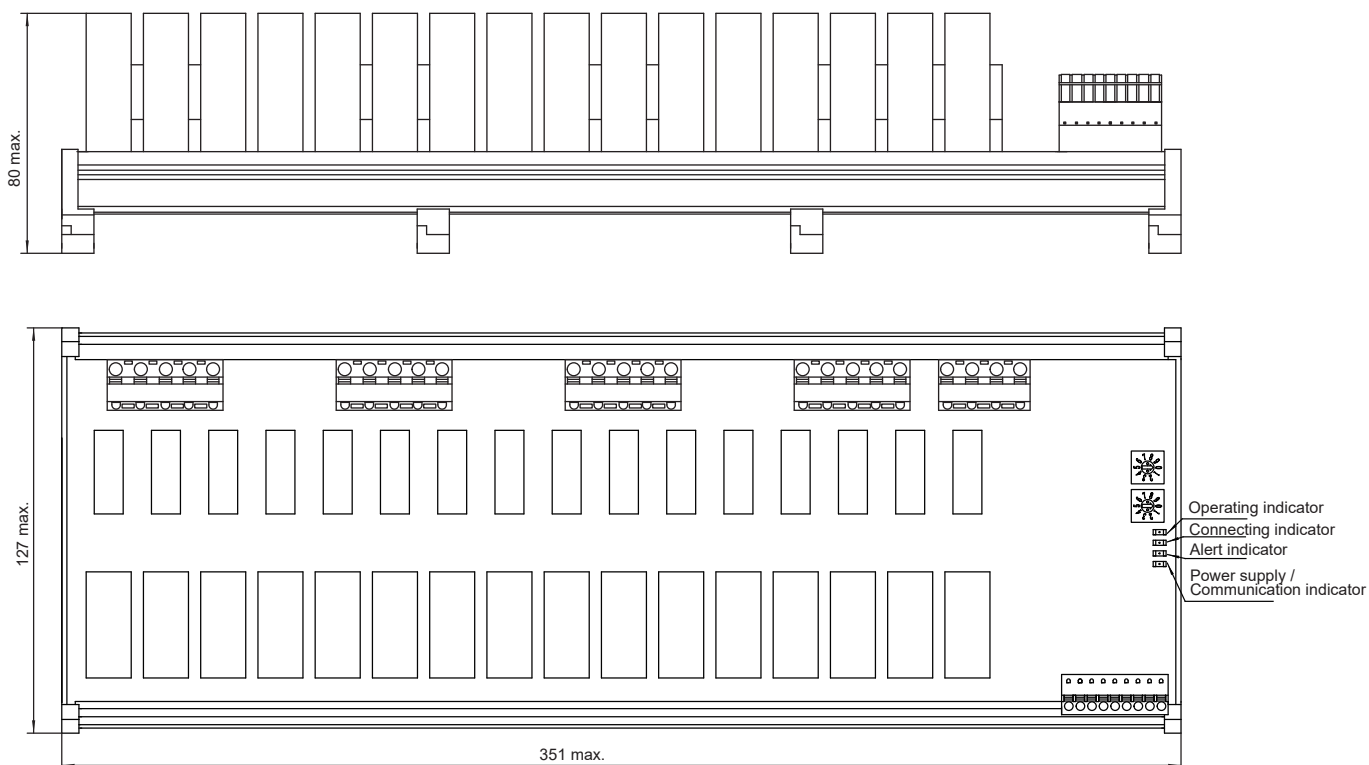
Operating indicator: LED flashes every 1.5s when the module is operating.

Connecting indicator: LED lights up when the control register value is not zero.

Alert indicator: LED lights up when there is a failure.

Power supply/Communication indicator: LED lights up when there is a power supply, LED becomes brighter when the module is communicating.

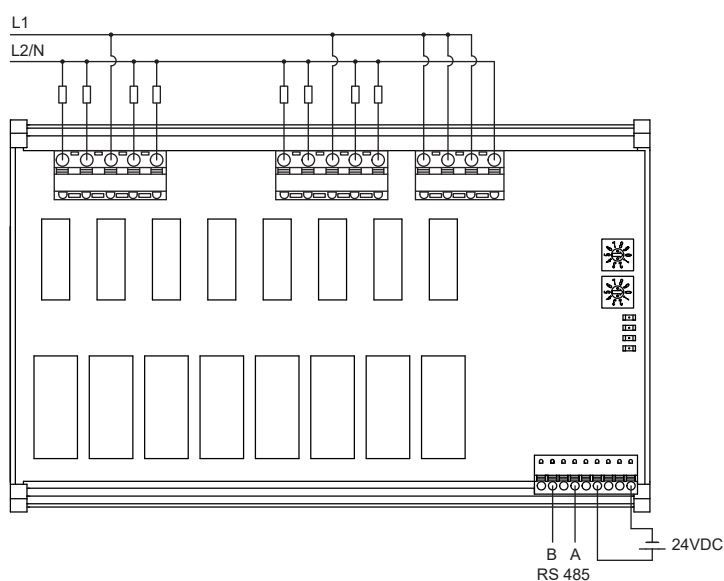
DRP8... Series



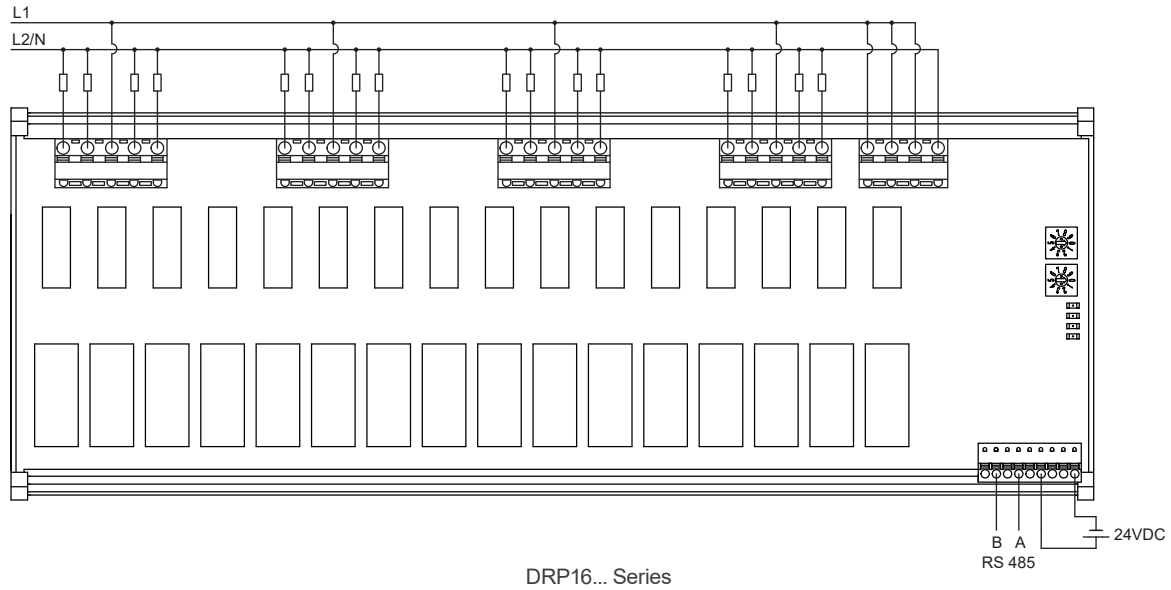
Operating indicator: LED flashes every 1.5s when the module is operating.
 Connecting indicator: LED lights up when the control resistor value is not zero.
 Alert indicator: LED lights up when there is a failure.
 Power supply/Communication indicator: LED lights up when there is a power supply, LED becomes brighter when the module is communicating.

DRP16... Series

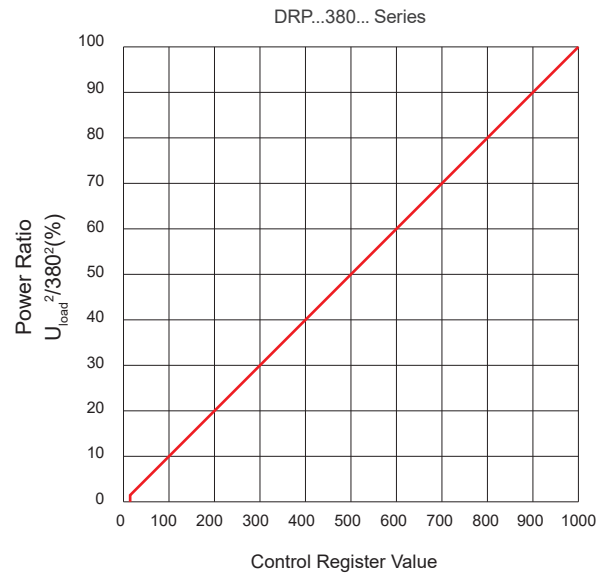
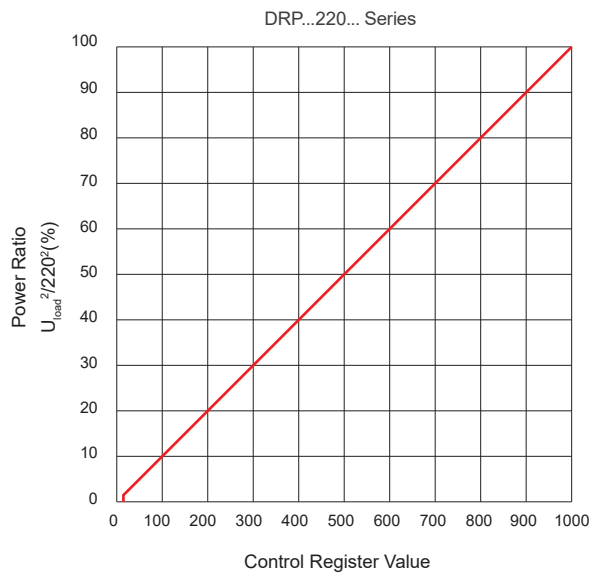
Wiring Diagram



DRP8... Series



Output /Proportional Control Characteristic



General Notes

1. To minimize external interference, it is recommended to use twisted-pair cables or shielded cables for the RS485 control lines.
2. Due to the limited current capacity of each terminal, all terminals marked "L" must be connected to the power supply's L (Line) terminal.
3. Since this product regulates the voltage across the load through chopper modulation, the voltage waveform at the load terminals is not a standard sine wave. Therefore, when measuring the voltage across the load, a meter labeled "TRUE RMS" should be used. Common multimeters typically employ average-responding measurement, which is only suitable for sine wave measurements. When measuring non-sinusoidal voltage waveforms, the readings from such multimeters are often lower than those obtained with a TRUE RMS meter. The greater the waveform distortion, the larger the discrepancy between the two values.

! Warnings

1. Disconnect all power before installing or using the relay.
2. Verify all connections are proper before turning on power.
3. For non-sinusoidal waveforms, only True RMS meters can provide accurate voltage measurements. Standard multimeters may underreport the actual values under high distortion conditions.