

ROOM TEMPERATURE CONTROLLER (GRC-1100)



Description

- "GRC" Proportional Room Temperature Controller is intended to be used to control room temperature steadily.
- Operating Voltage : AC 24V
- Heating and Cooling exchanging function
- Built-in temperature transmitter method(Pt1000)
- Control Output Signal : 0~10V DC
- Functions :
 - Heating: when the switch is at heating point, valve is to open in case room temperature is lower than setting point.
 - Cooling: When the switch is at cooling point, valve is to open in case room temperature is high than setting point.

Technical Data

- SUPPLY VOLTAGE : 24V AC \pm 20%
- FREQUENCY : 50 or 60Hz
- POWER CONSUMPTION : 0.5VA
- CONTROL RANGE : 0 ~ 40°C
- CONTROL SIGNAL : 0~10V DC.
- SENSING ELEMENT : Pt1000 Ω
- AMBIENT TEMP&HUMI :
 - 1) On Operation : at -5~+50°C, below 95% Rh
 - 2) On Transportation : at -5~ +70°C, below 95% Rh
- PROTECTION CLASS : IP30
- WEIGHT : 0.08Kg

Technical Design

- **This unit is designed for P-control.**

Based on the differences between detected temperature and pre-set point, This controller gives out put control signal is within 0~10V DC

- **When control signal varies, it varies from 0 to 100% A variable is to control signal means of mutual-proportional relation.**

Adjustments

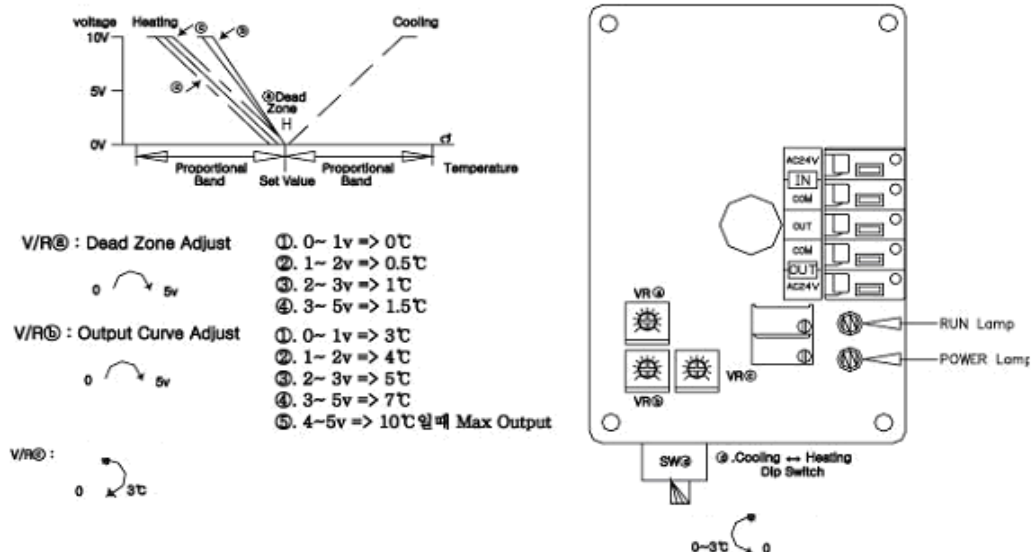
Mode transition switch is built in for heating and air-conditioning.

Desired Temperature can be set by turning the rotary knob located at the front of the controller.

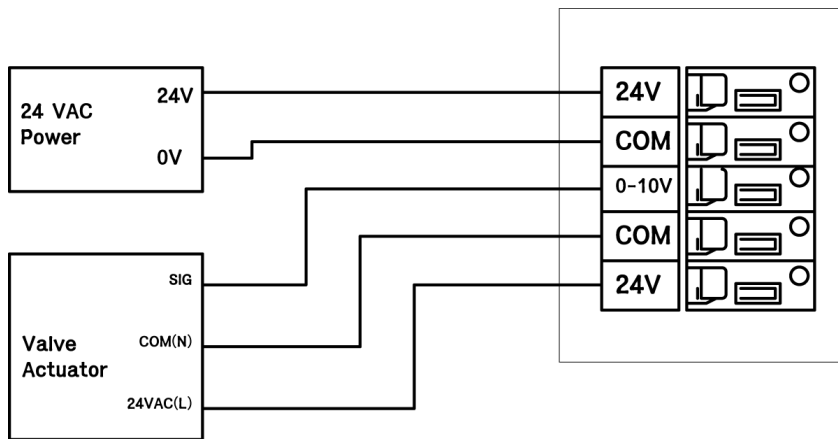
Mounting Notes

- "GRC" model should be protected from the direct rays of the sun and other heat sources, and located very well to detect the air temperature.
- "GRC" can be installed in the Conduit Box and/or on the side wall directly by screw bolting.
- Select a location approx 1.5 meter above the floor for "GRC" room temperature controller.
- Avoid a location where air is not circulated well.

Temperature Controller Adjust



Wiring Diagram



AC24V and AC 24V, GND and GND - inside PCB common

Dimension

