



5-1

Room temperature controller GRC-1100



Summary

- Power to operate : 24VAC, 24VDC
- Heating&cooling switching available
- Temp. sensor installed(PT1000Ω)
- Output control : 0 ~ 10 VDC
- To control the room temperature stably, as proportional room temperature controller for heating and cooling.

Use

- Normal use in residential building, industrial building
- Compatible with Zone valve, Temp. controlling valve

Function

- Heating : Valve opens in case that room temp. is lower than set-value with dial-knob on heating
- Cooling : Valve opens in case that duct temp. is higher than set-value with dial-knob on cooling

Technical features

· Power supply : 24VAC/DC ±15%	· Frequency : 50 or 60Hz
· Consumption power : 0.5VA	· Range of control : 0 ~ 40°C
· Output control : 0 ~ 10VDC	· Temp. sensor : PT1000Ω installed
· Housing : IP30	· Ambient Temp. and humidity
· Weight : 0.08kg	1) operation : -5 ~ 50°C and below 95%RH 2) in transit : -5 ~ 70°C and below 95%RH

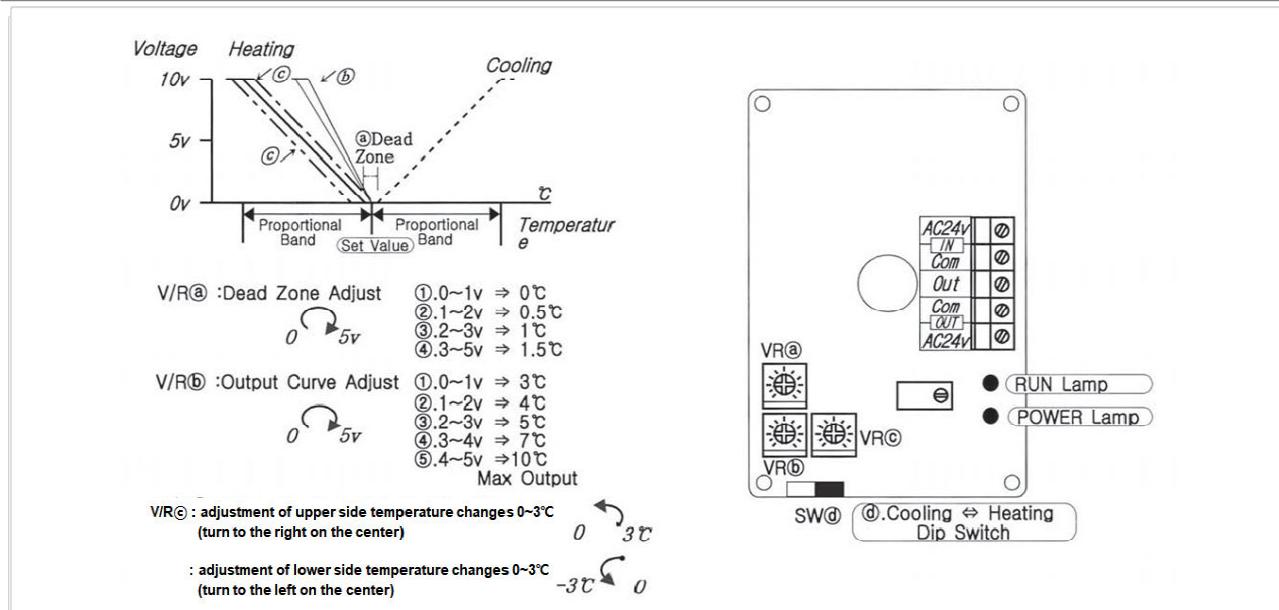
Technical design

- Proportional controlling. Transmitting proportional control-signal estimating variances by comparing room temp. of sensor and adjusted set-value(control-signal range : 0 ~ 10VDC)
- Variances to control changes from 0 to 100% by control-signal, which means that variances to control is proportionally co-relevant to control-signal.

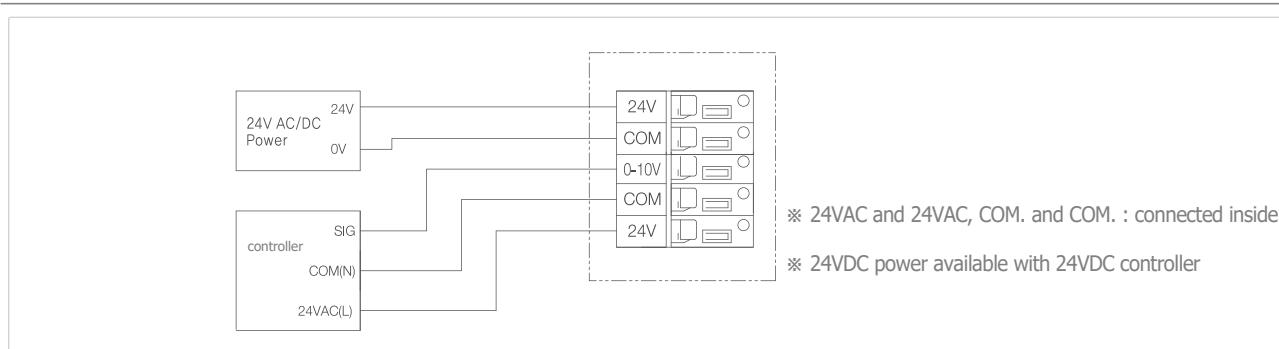
Setting

- Heating&Cooling switching is installed.
- Set the required temp. by dial-knob on the front of duct temp. controller.
- Install to sense air-temperature accurately without any effect from direct sunlight or other heat-sources
- Equip in Conduit-box(Joint-box) or fix with screw on the sides indoors

Adjustment



Wiring diagram



Shape dimension

