

# PROPORTIONAL TEMPERATURE CONTROLS

Type PWS

SAGINOMIYA

## GENERAL DESCRIPTION

- Designed for accurate control for air and liquid temperature in duct and boiler.
- Incorporates a potentiometer which produces a variable voltage signal to actuate AWK/EGK type damper motor or MJV/WGK type motor valve.
- Proportional band (throttling range) is adjustable.
- Electrical rating: 24V. AC, 50mA.  
Potentiometer resistance 0 to 135Ω.

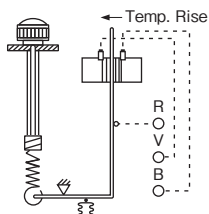


## TYPE NUMBER SELECTION (SPECIFICATIONS)

Unit: °C

| Catalog No. | Construction           | Adjustable Temp. Range | Proportional Band |      | Usage Condition | Max. Ambient Temp. |                 | Wt. (kg) |
|-------------|------------------------|------------------------|-------------------|------|-----------------|--------------------|-----------------|----------|
|             |                        |                        | Min.              | Max. |                 | At Switch Body     | At Sensing Bulb |          |
| PWS-7034    | With One Potentiometer | -10 to 35              | 2.5               | 14   | Ts ≡ Tb         | -20 to 70          | 60              | 0.52     |
| PWS-7054    |                        | 10 to 55               |                   |      |                 |                    | 80              |          |
| PWS-7074    |                        | 30 to 75               |                   |      |                 |                    | 100             |          |
| PWS-7094    |                        | 50 to 95               | 120               |      |                 |                    |                 |          |
| PWS-7120    |                        | 40 to 120              | 4                 | 20   |                 |                    | 150             |          |
| PWS-7060    |                        | -5 to 60               | 35                | 15   |                 |                    | 90              |          |

## INTERNAL WIRINGS (POTENTIOMETER ARRANGEMENT)



Resistance variation at potentiometer with increase of temperature:  
Increase between R and B  
Decrease between R and V  
R...Common terminal

## DIMENSIONS

