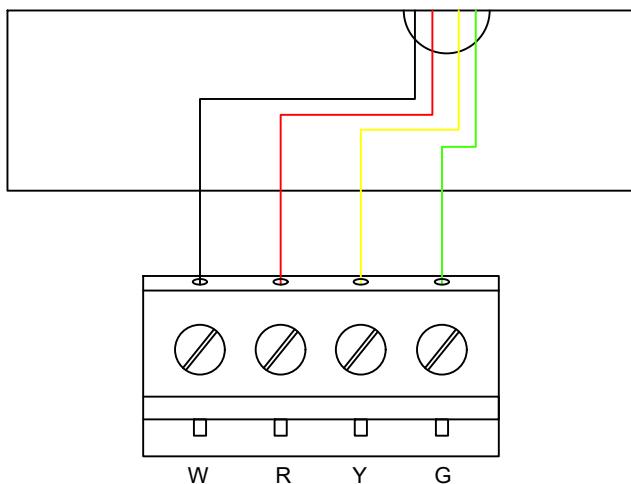


4 WIRE THERMOSTAT WIRING DIAGRAM



RED - 12V/24V POWER
WHITE - HEATING
YELLOW - COOLING
GREEN - INDOOR FAN/AIR HANDLER

4 WIRE THERMOSTAT WIRING DIAGRAM BASIC GUIDE:

What is 4-Wire Thermostat wiring diagram?

- A 4-wire thermostat wiring diagram explanation describes how a thermostat uses four low-voltage (24V) wires to control an HVAC system—usually heating, cooling, and the fan.

The 4 Common Thermostat Wires:

| Wire Color (Typical) | Terminal | Function |
|----------------------|-------------|----------------------------|
| Red (R) | R / Rc / Rh | 24V power from transformer |
| White (W) | W | Heat control |
| Yellow (Y) | Y | Cooling (AC compressor) |
| Green (G) | G | Fan control |

What Each Wire Does:

R – Power

- Supplies 24VAC power
- May be labeled R, Rc, or Rh
- If Rc & Rh are present, they're often jumpered together

W – Heat

- Activates furnace or boiler
- When thermostat calls for heat, it connects R → W

Y – Cooling

- Activates the outdoor AC compressor
- Thermostat connects R → Y

G – Fan

- Controls blower fan
- Thermostat connects R → G

Important Safety Tips:

- Turn off HVAC power before wiring
- Take a photo of existing wiring before changes
- Never guess terminals—check furnace control board labels