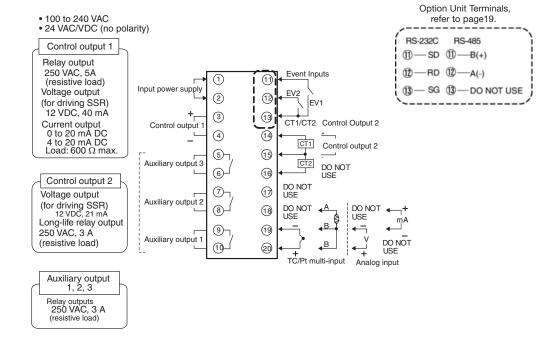
Bulletins 900-TC8 and 900-TC16 Wiring Terminals — General Guidelines

- The voltage output (SSR control output) is not electrically isolated from the controller's internal circuits. When using a grounded thermocouple, do not connect the control output terminals to earth ground. If the control output terminals are connected to earth ground, errors will occur in the measured temperature values as a result of ground loop leakage current.
- Standard insulation ratings exist between any of the following: power supply terminals, input terminals, output terminals, and communication terminals. If reinforced insulation is required, provide additional insulation, such as spacial distance or material insulation, as defined by IEC 60664.
- Separate input leads and power lines to protect the Bulletin 900-TC8/900-TC16 and its lines from external noise.
- Solderless lugs are recommended when wiring to the Bulletin 900-TC8/900-TC16 wire terminals. However, if lugs are not used, the
 controller's screw terminals will accept two solid or stranded wires (no mixing) 14...24 AWG.
- Tighten the terminal screws using a torque 0.74...0.90 N•m.
- Use a 7.2 mm open or round solderless lug for M3.5 screws.
- · Never attempt to remove the controller terminal block from the controller case. Damage may result.

Note: Input power supply available: 100...240 V AC, or 24 V AC/DC

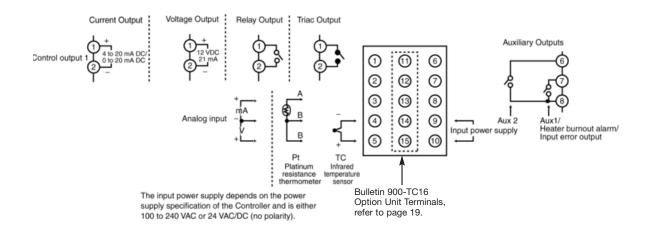
Bulletin 900-TC8 — Wiring Terminals





Single-Loop Temperature/Process Controller

Bulletin 900-TC16 — Wiring Terminals

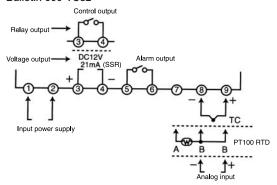


Bulletin 900-TC32 — Wiring Terminals Wiring Terminals — General Guidelines

- The voltage output (SSR control output) is not electrically isolated from the controller's internal circuits. When using a grounded thermocouple, do not connect the control output terminals to earth ground. If the control output terminals are connected to earth ground, errors will occur in the measured temperature values as a result of ground loop leakage current.
- Standard insulation ratings exist between any of the following: power supply terminals, input terminals, output terminals, and communication terminals. If reinforced insulation is required, provide additional insulation, such as spatial distance or material insulation, as defined by IEC 60664.
- Separate input leads and power lines to protect the Bulletin 900-TC8/900-TC16 and its lines from external noise.

Note: Input power supply available: 100...240 V AC, or 24 V AC/DC

Bulletin 900-TC32

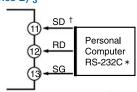




Option Units

Bulletin 900-TC8 — Option Unit Wiring

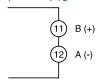
Cat. No. 900-TC8232 RS-232C Communications Unit (Series B) §



Cat. No. 900-TC8EIM Event Input Unit

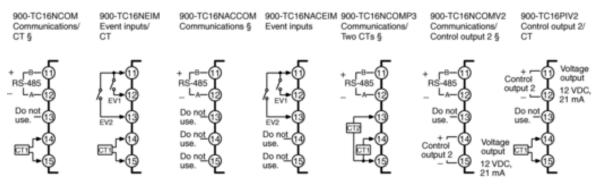


Cat. No. 900-TC8COM RS-485 Communications Unit (Series B) ‡§



- * With 900BuilderLite Software
- * 900-CP1x or equivalent cable provides the physical connection between the PC and controller.
- ‡ Typically, an RS-232 to RS-485 converter such as the Cat. No. 900-CONVZ25 (see page 23) will be required between the personal computer (with 900Builder software) and the Bulletin 900-TCx controller. In that case, a 900-CPx or equivalent cable provides the physical connection between the converter and the PC. RS-485 allows linking up to 31 controllers with a single personal computer.
- § Series B provides baud rates up to 57.6 K bps.

Bulletin 900-TC16 — Option Unit Wiring



Attach the appropriate terminal labels.

§ Series B provides baud rates up to 57.6 K bps.