Quick Guide for PT100 RTD Sensor
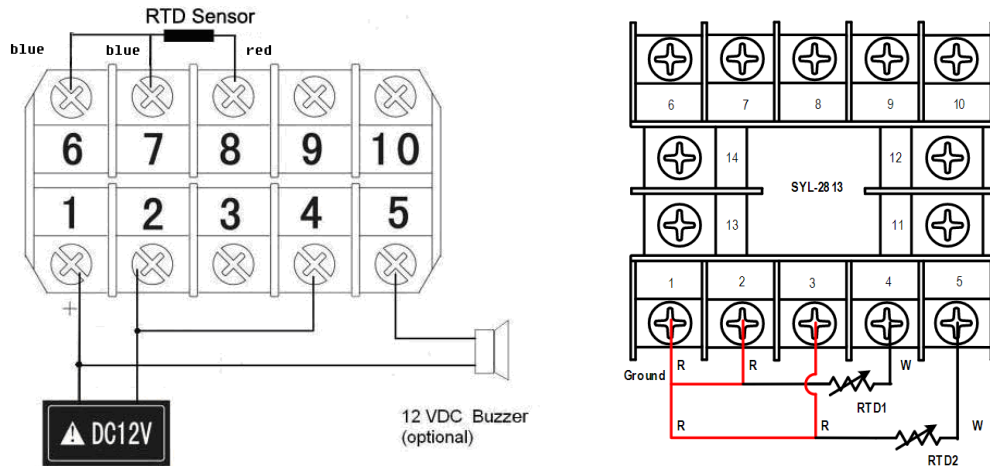

Figure 1. Wiring diagram. SYL-1813 wiring on the left, SYL-2813 wiring on the right.

1) Sensor wiring: Your PT100A-NPT/P18NPT50 RTD sensor comes with three wires. Two are in a same color and one is in a different color. **For SYL-1813**, connect two same color wires on 6 and 7 (no polarity is needed), connect the different color wire on pin 8. For **SYL-2813**, connect two same color wires on pin 1 and 2 (no polarity is needed), connect the different color wire on pin 4 (for channel 1). For channel 2, please use pin 1, 3 and 5.

2) Both SYL-1813 and SYL-2813 has input sensor type parameters, to let the gauge know which temperature sensor you want to use. For SYL-1813, its input is pre-set for K type thermocouple. For SYL-2813, channel1 is pre-set for PT100 RTD and channel2 is pre-set for Cu50. You need to check/change the input sensor type to **PT100 RTD** before using it. **For SYL-1813**, press SET, enter code 0089. Press SET again to get in the parameter setting mode, it will display **Inty**. Press SET key then press ^ key until you see **P100**. Press SET key to confirm. Press ^ key until display shows END. Press SET again to exit. **For SYL-2813**, press SET, enter code 0089. Press SET again to get in the parameter setting mode, it will display **int1** on the top (sensor type for channel 1). Press SET again and check if it is P100. If not, press ^ or v key until you see **P100**. Press SET again to confirm. Press ^ until display shows END. Press SET again to exit. To use RTD for channel 2, please change parameter **int2** similarly.

3) The temperature display unit is for Fahrenheit. To change it to Celsius, use code 0089 to change **CorF** parameter for SYL-1813 and **C-F** parameter for SYL-2813. After you switch between F and C, please double check your alarm temperature parameters AH1, AL1, AH2, AL2.

4) For SYL-1813, the alarm is at 900F. The AL LED (or AL1, AL2 LED for SYL-2813) will be on above that temperature. It will be off when temperature drops to below 800F. To change the alarm, use code 0001 to change AH1 and AL1 setting. For SYL-2813, AH1 & AL1 are for channel 1, AH2 & AL2 are for channel 2. Please adjust those parameters accordingly. Please check the gauge's instruction manual for details.

5) For other advanced features such as peak holding function (max/min), please check the instruction manual for your gauge.

6) Error message. If the meter displays "EEEE", it indicates the sensor is not connected correctly or is faulty. Please check if your sensor is hooked up to the gauge properly and check your sensor input type parameter inty/int is set properly.