

Temperature Exercise 4

Required items:-

UT150 Temperature Controller

240v plug and lead

PT100 Temperature Sensor



Before any equipment is plugged into the 240V outlet sockets it must be checked by the T.O. !

Connect the 240v lead and the PT100 sensor to the connections as shown on the following diagram.

Short

Short

Sensor

Live

Neutral



After the connections have been checked, switch on and wait for the display to stabilise.

Hold the SET/ENT button for at least 3 seconds until CTL is displayed. Press the SET/ENT button repeatedly until LOC is displayed. Press the down arrow key to display -1 and then press SET/ENT key again. 'In' should now be displayed. Refer to the input range table and select the required range. Use the up/down keys to select required number then press the SEL/ENT key.

Press the SEL/ENT key for at least 3 seconds to revert back to the normal display. The unit will now measure and display the measured temperature.

Hold the SET/ENT button for at least 3 seconds until CTL is displayed. This indicates that the controller is in the ON/OFF control mode. That means that when the measured temperature varies above or below a 'Set Point' the output will be on or off to control a heater unit.

Press the SEL/ENT key until HYS is displayed. This parameter determines how far off the setpoint the measured variable has to alter before the output changes state. Set this value to 0.5 using the up/down keys. Press the SEL/ENT to enter value. Press the SEL/ENT key for at least 3 seconds to revert back to the normal display.