ITP17 SETUP EXAMPLE

TEMPERATURE MAINTENANCE AND DISPLAY OF TEMPERATURE CHANGE WITH COLOR AND SYMBOLS ON THE INDICATOR

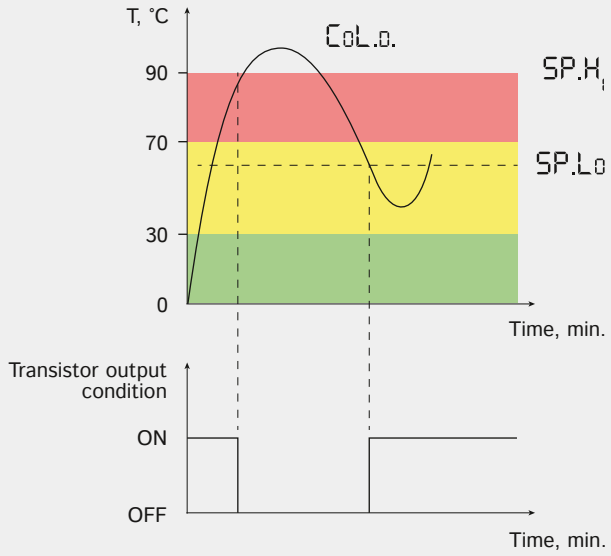
Task: Maintain the temperature in the muffle furnace and display the temperature change on the indicator in three colors:

- From 0°C to 30°C — **Green**
- From 30°C to 70°C — **Yellow**
- From 70°C to 90°C — **Red**

The heater must maintain the temperature range between 60°C and 90°C. The connected sensor is a **Pt1000**, with a **three-wire** connection scheme. Temperature accuracy should be **to one decimal place.**

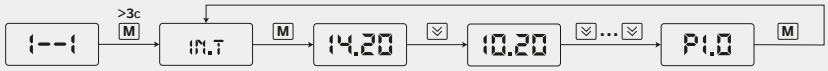
The color zones are configured in the parameters CoL.1, CoL.2, CoL.3, and CoL.4. The default values of these parameters will be used. The base indicator color outside of the color zones is set in parameter CoL.0.

The device is equipped with a transistor output to control loads up to 200 mA and 42 V. You can connect a contactor, signal lamp, or other control and signaling devices to the transistor output.



DEVICE SETUP INSTRUCTIONS

1. Set the sensor type.

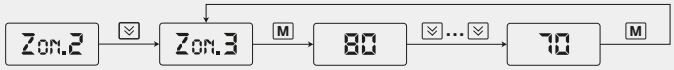


2. Sensor connection scheme is set in parameter UU. By default, this value is -LN (three-wire). This value is suitable for the task.

3. Set the transistor output logic.

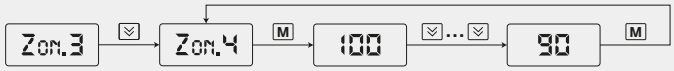
4. Configure Zone 1 Display: In parameter Zon.1, set the value to 30.

5. Configure Zone 2 Display: In parameter Zon.2, set the value to 70.



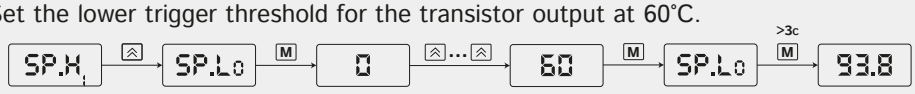
Note: If the color zone values differ from this example, the sequence for setting the Zon.x parameters should be done in descending order, starting from the last zone, recording each value in turn: Zon.5 → record value → Zon.4 → record value → … → Zon.1 → record value. Violation to follow this sequence may result in a configuration error.

6. Configure Zone 3 Display: In parameter Zon.3, set the value to 90.



7. Set the upper trigger threshold for the transistor output at 90°C.

8. Set the lower trigger threshold for the transistor output at 60°C.



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