

**SHIVAAMVAJ TEMPERATURE CONTROLLER -50 .. 125°C**



**Introduction**

This thermostat is a convenient device to control temperature in the range -50 ... 125°C. The sensor of this device is designed high-flexible.

MODEL : TRB-125D  
 CODE : 15B3  
 WEIGHT : 118 gr  
 (72x86x60) mm  
 IP 30



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**Features**

- Completely digital system equipped with temperature indicator
- Two indicators to announce
  - └ FAULT : sensor disconnection
  - └ REL : relay connection
- Options
  - └ Temperature adjustment with 1°C accuracy
  - └ Separating adjust relay ON/OFF temperature
  - └ detects of sensor disconnection
  - └ Suited for heating(hot) and cooling(cool) application
  - └ Device calibration according to intended reference

**Technical Specification**

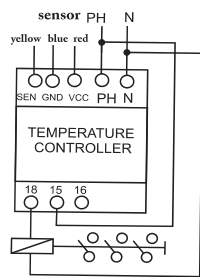
- Supply voltage : 180-250 VAC / 50-60Hz
- Measurement range : -50°C ... +125°C
- Sensor type : IC attached to device
- Delay time
  - └ Connection : 1-60 Sec
  - └ Disconnection : 1-60 sec
- operating condition
  - └ Temperature : -20°C ... +65°C
  - └ Humidity : 70%
- Output : 5A relay

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**Installation**

Install device on rail inside panel or any desired surface using rail embedded in package. (Use Shiva Amvaj panel frame to install on panel).  
 First , connect input to terminals ( N, Ph ) .Then connect input power of device and sensor to device considering the color (yellow wire to terminal +) according to scheme. Program the device based on setting guide.

Note 1 : Avoid connecting capacitance or switching load or LED drivers to the device directly due to excessive current of setup in these consumer. Use appropriate output relay or contactor in these situations

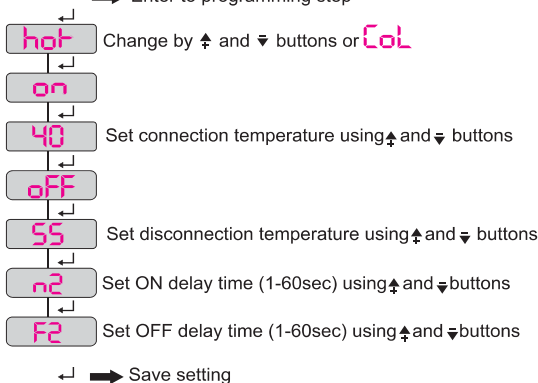


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**Adjustment Guide**

By connecting input power to device, indicator displays temperature of location in which sensor is installed. In order to program device behave as follows:

➡ Enter to programming step



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- 1-Pressing ↵ button (to display **hot** or **COL** on indicator screen)
- 2-To alter **hot** to **COL** or vice versa, use ▲ and ▼ buttons. Choose **hot** in case of heating usage of device ( to control thermal sources like furnace and ..) and **COL** in case of cooling usage ( to control refrigerating room and ..)
- 3-Pressing ↵ button and displaying **on**
- 4-Pressing ↵ button and displaying adjusted temperature for relay connection.
- 5-Adjusting connection temperature using ▲ and ▼ button.
- 6-Pressing ↵ button and displaying **off**
- 7-Pressing ↵ button and displaying adjusted temperature for relay disconnection.
- 8-Adjusting disconnection temperature using ▲ and ▼ button.
- 9-Pressing ↵ button and displaying delay on time **n2** (2 seconds as default)
- 10-Adjusting delay-on time using ▲ and ▼ button (1 to 60 seconds)

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- 11-Pressing ↵ button and displaying delay-off time **F2** (2 seconds as default)
- 12-Adjusting delay-off time using ▲ and ▼ buttons (1 to 60 seconds)
- 13-Pressing ↵ button and saving setting.

**Note :** if displayed temperature by device is different from your reference temperature, calibrate device using following setting. Normally it is not essential to enter these setting.

**Calibrating by user:**

- 1- Holding ↵ button 5 sec and displaying **C5** → **CO** .
- 2- Changing temperature to ±9°C using ▲ and ▼ button.
- 3- Pressing ↵ button and saving new changes.
- 4- Observing change in indicator temperature.

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**Respecting the customer is our duty**

3 year no question asked guarantee under these conditions;  
 1-at most it should be within 3 years from the date printed on the label of the product  
 2-the label on the product should be safe and sound

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Shiva Amvaj products in accordance with international standards and with a 3 year no question asked guarantee are presented



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