Name: Digital Temperature Sensor

Model: DT-01

The Digital Temperature Sensor is special for strict temperature control applications, e.g.: Laboratory, museum, warehouse, wareroom, storehouse, depot, depository, depositary, generator room, machine room, engine room, etc. It can be set low-high temperature range, When the temperature lower than the low value or higher than the high value, the detector will trigger and output one dry contact singal to the alarm system (S3523, S3525, S3526). The alarm system will alert the users immediately.
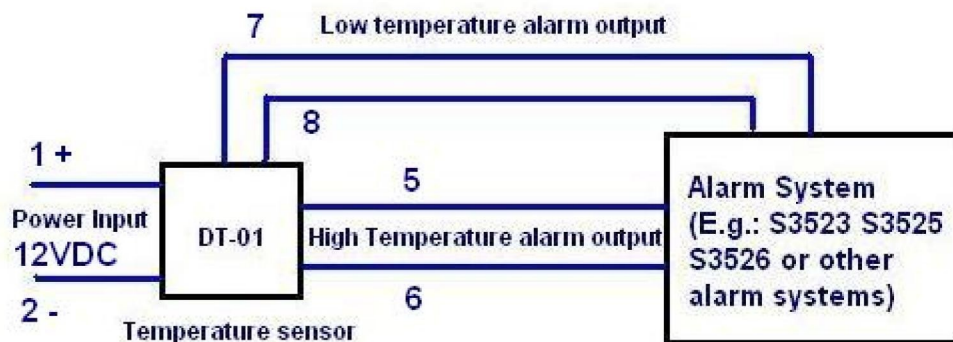
★ **Functions and Features:**

1. Low working voltage, it's safe to any person;

2. Apply to important temperature control applications;

3. Large-scale, -20°C ~50°C;

4. New patent design for house and industry;

5. Range Adjutable: the scale of detection can be set by the user;

6. 2 relay outputs for connect to alarm system, normally open;

7. Low ~ High temperature limited alarm, exceed the pre-set rang value will alarm.

★ **Technical Specifications:**

➢ Working Voltage:12VDC;

➢ Detect range: -20°C ~50°C;

➢ Precision: +/- 1°C

➢ Output Relay Mode:Dry contact, Normal Open;

➢ Temperature value setting minmun unit: 1°C;

➢ Trigger output power capacity: 48V@0.1A or 220V@ 0.15A;

➢ Working environment:-10 ~ 70°C,10~90%RH;

➢ Size: 96 x 56 x 46 mm;

➢ Weight: 205g;

★ **Wiring diagram:**

Digital Temperature Sensor Wiring Diagram (DT-01)

★ **Installation**

1. **Button functions:**

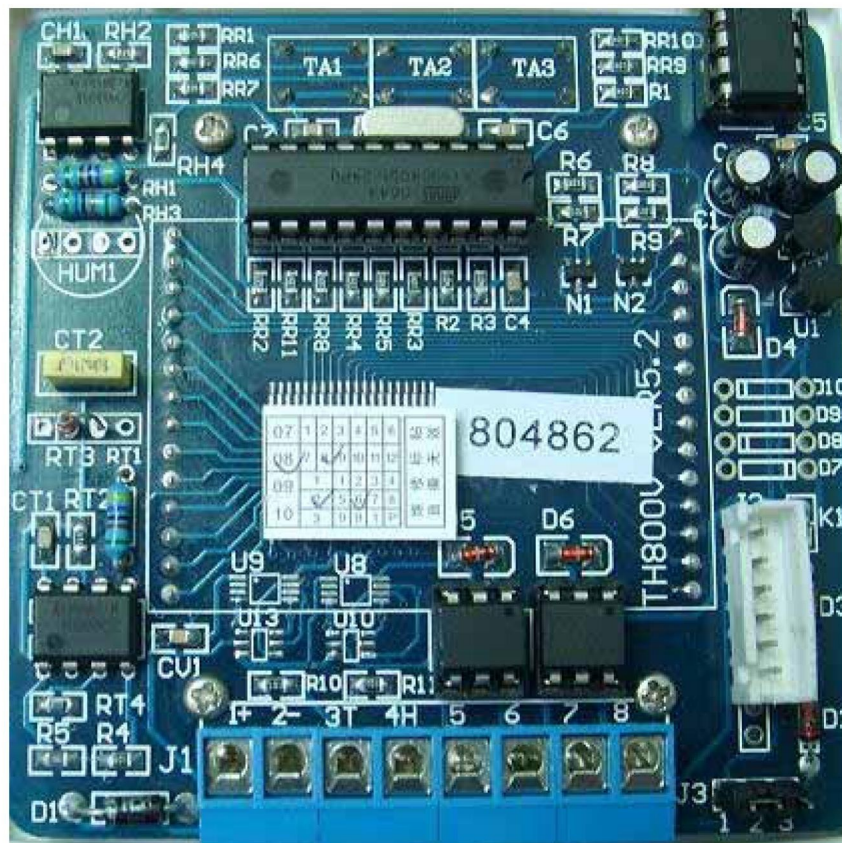**Button 1:** Confirmation button, press it to save the change valve;

Button 2: Adjustment button, press it to increase the value or reduce the value;

Button 3: Set and check results button, press it to enter into the setting system or check the setting results.

2. **Temperature range setting:**

2.1 Power on the DT-01 it will start to self-detect for 1s, press button 3, the screen will show the Max, it means you can set the High Temperature Value; Press button 3 again, the screen will show the Min, it means you can set the Low Temperature value.

2.2 When the screen show Max, then you can press button 2 to increase or reduce the temperature value, the value from -20°C to 50°C. Press once button 2 will modify 1°C at the value.

2.3 Once you finished the temperature value,then you can press button 1 to save it and exit the setting, the DT-01 starting to detect the temperature.

2.4 If you want to modify the low or high temeperature values, you can repeat the above operations.

2.5 Low temperature value: once the temperature equal to the low temperature value, the DT-01 will trigger and the Min. in the screen will flash;
High temperature value: once the temperature up to the high temperature value, the DT-01 will trigger and the Max. in the screen will flash.

3. Temperature PCB connection points:

1+: Power +;   **2 - :** Power -;   **3T:** Reserved;   **4H:** Reserved;
5 and 6: High Temperature alarm output; **7 and 8:** Low Temperature alarm output;
6Pin White Socket: For factory test.

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