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# TH300 Smart Hand-held Communicator manual

## Introduction of function

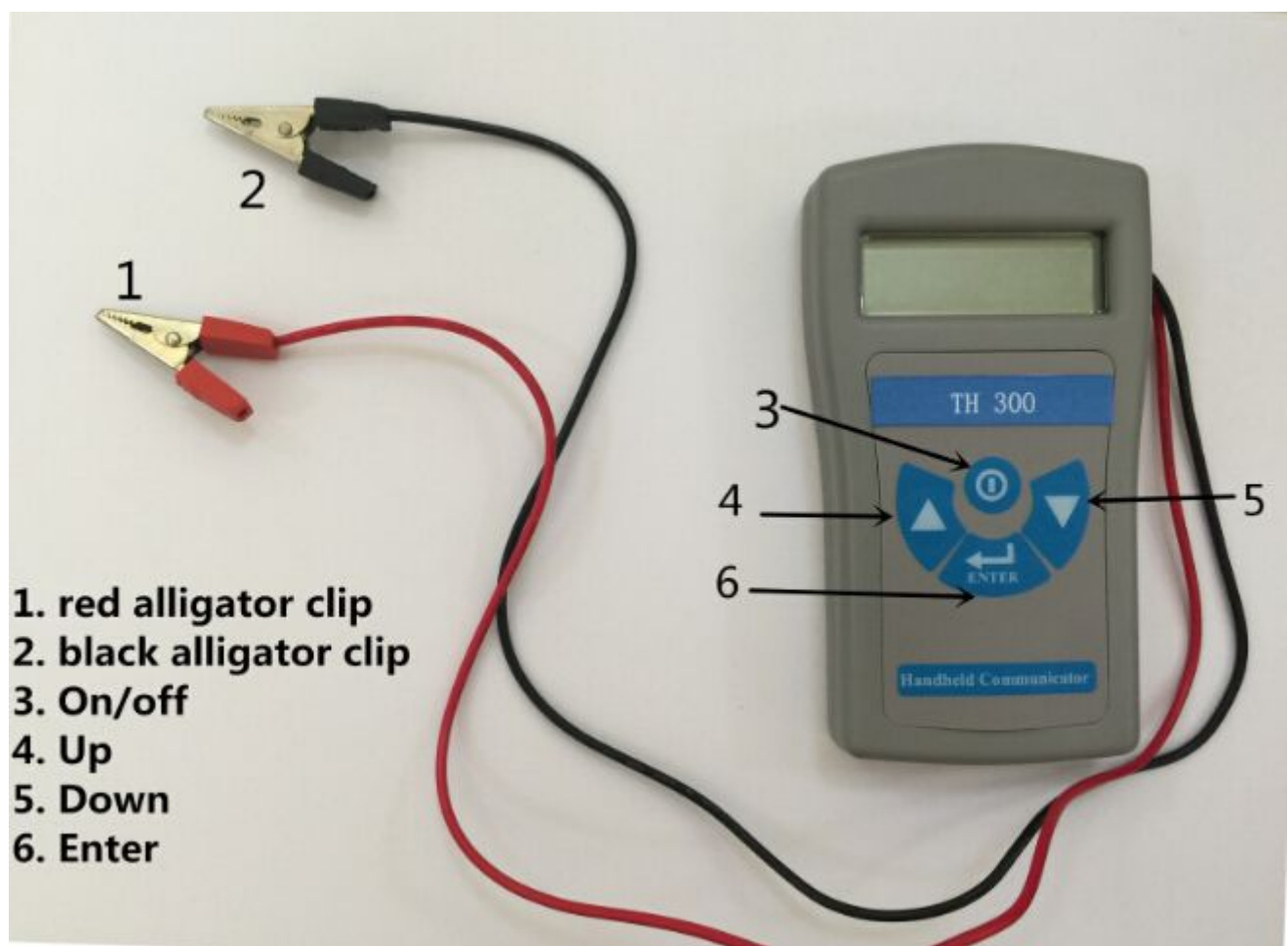
TH300 smart hand-held communicator, can be used for TT304 and TT304 series temperature transmitter, to query or set up and so on.

## Notes

1. Before using the equipment, please read this manual. Exposure of the device in the sun will shorten the life of the LCD screen. When not using the instrument for a long time, we recommend removing the battery, so as to avoid battery leakage and damage to the equipment.

## 2. Environment temp request

Working temp range:0℃—+50℃,storage temp range:-20℃—+55℃



## Use step

### 1.install battery

SIZE: AAA, install battery correctly.

### 2. Communication diagram

(1) red alligator clip connects terminal 3, black alligator clip connects terminal 4

(2) connects transmitter with DC power

PS: if it shows **Err2**, then it means the connection fails. Please recheck the connection, reset

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**the communicator.**

### **3.On/off**

(1) On: Press on/off button until it shows letters. The communicator will automatically recognizes the type of device that it is connected with and shows in screen.

For example, when it shows 302, it means that it is connected with TT302.

(2) Off, press On/off button until it is turned off.

(3) Auto-off function: no operation of the device within 3 minutes, the device will automatically shut down.

### **4. Menu: Set, VAR version, query**

(1) Set

A: Configuration information setting

a) after turning on the device, enter the "Settings" menu;

b) Press the Enter key to enter the "Sensor Type Select" function interface, press up and down keys to select "Sensor Type";

c) Press the Enter key to enter the "4mA" Range interface, press the up and down keys to adjust the temperature corresponding "4mA".

d) Press the Enter key to enter the "20mA" Range screen, press the up and down keys to adjust the temperature corresponding "20mA".

e) Press the Enter key to enter the "save" function interface, press the Enter key to enter the "success" screen;

f) Press the Enter key to return "set", the device is closed, the set is over.

B: Adjust

a) after turning on the device, enter the "Settings" menu;

b) enter the "Sensor Type Select" function interface by the Enter key, enter the "adjust" function interface via the up and down keys. Enter "4mA point adjustment" screen, adjust +/-7uA by up and down keys to get close to 4mA

c) enter "20mA point adjustment" screen by Enter key, adjust +/-7uA by up and down keys to get close to 20mA; go to save interface by Enter key

d) enter the "success" screen by Enter key

e) press the Enter key to return "setting", the device is closed, this link is finished.

PS: You can only use this selection when 4mA standard signal input configuration in the vicinity of 100uA 4mA range, otherwise please check the signal or the configuration.

For example, when configured as pt100, 0 °C ~ 100 °C, at 4mA point should enter 100ohm, at 20mA should enter 138.51ohm..

(2) VAR version

a) enter the "Settings" menu after turning on equipment

b) press the up and down keys to enter "VAR Version Info" function interface, and then press Enter key to display the current device version;

c) press Enter to return to the "Settings" menu interface.

(3) Query

a)enter the "Settings" menu after turning on the device

b) press the up and down keys to enter the "configuration information query" function interface, press the

Enter key to display the current setting of the sensor type;

c) press the Enter key to display the temperature value corresponding to 4mA ; then press the Enter key to display the temperature value corresponding to 20mA;

d) press the Enter key to return to the "Settings" menu interface.

## Operating instructions Fig.

