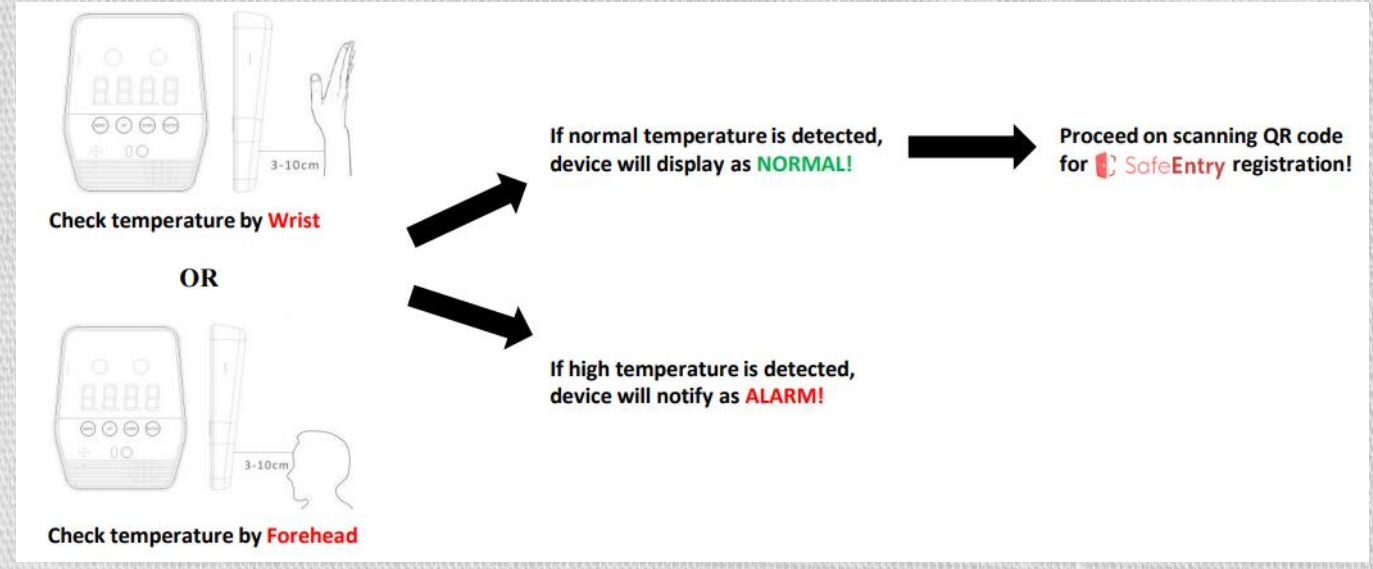
Portable Infrared Temperature Detector

IG-T1

Solution Design Flow



Function Introduction

1

Accurate Measurement
The Belgian infrared induction thermopile detector chip and signal processing dedicated integrated chip are used for automatic measurement, accurate calculation, rich clinical medical data built-in, and can be adjusted according to the ambient temperature. The measurement results reflect the human body's true body temperature.

2

Customized high and low temperature alarm
Freely set alarmed high and low temperature

3

Display conversion of Celsius and Fahrenheit temperature
You can choose to display Celsius or Fahrenheit by setting.

4

Easy to install and use
The forehead is aligned with the thermometer probe, and the temperature measurement indicator lights up when the target enters measurement distance range, and the result is obtained.

5

Security
Non-contact and no cross infection.

6

Sound and light alarm
When normal or excessive body temperature is detected, the instrument will automatically light up and issue different alarm sounds respectively.

7

Restore factory settings and power on self-test
Easy to set up functions and know device status.

8

Data output (optional)
Output data through 485 communication protocol.

Specifications

Model	IG-T1	Measurement time	0.5 second
Type	Infrared	Temperature Accuracy	±0.2°C
Temperarture Range	Body temperature measurement range 32°C - 42.5°C Body surface measurement range 0°C - 100°C	Power	Wide voltage 5V-12V DC
Power Consumption	About 1W	Applications	Airports, large conference venues, large events, stations, terminals, prisons, courts, government departments, factories, shopping malls etc.
Working Environment	0°C—40°C, Relative humidity is less than 80%	Storage Environment	0°C - 50°C, Relative humidity is less than 80%
Higher Temperature Alert	Sound and light alarm, adjustable range high temperature up to 50 °C minimum 20 °C	Data Output	Support(optional)

Function Settings

Press and hold the "MENU" key to enter the setting mode and enter the first function setting. Each time you press the "MENU" key, you will enter the next function setting page, and return to the temperature measurement interfacewhen the sixth item is reached.

The first item is the unit "SI-" switching: "SI-F" means Fahrenheit, and "SI-C“ means Celsius. Press the left and right buttons to switch between Celsius and Fahrenheit. Select and press "OK" After thekey is pressed, the screen number flashes 3 times to save.

The second item shows "HI--" is the high temperature setting. Pressing the "UP" and "DOWN" keys are +0.1 and -0.1 degrees, respectively, and the highest can be set to 50 degrees Celsius. After setting, press the "OK" key. The screen number can be saved by flashing 3 times.

The third item shows "LO--" is the low temperature alarm setting. Press the "UP“ and "DOWN" keys, which are +0.1 and -0.1 degrees, respectively. The highest setting can be 0 degrees Celsius. After setting, press "OK" After the key is pressed, the screen number flashes 3 times to save.

The fourth item displays "BB--" is the calibration measurement temperature mode. Press the "UP" and "DOWN" keys, which are +0.1 and -0.1 degrees, respectively. The maximum setting is + -9.9 degrees Celsius. After setting, press " After confirm, the screen number flashes 3 times to save.

The fifth item displays "DF--" to restore the factory mode

Dimensions and Weight

Weight: about 200 grams