Setting Alarm

1. Press “+” or “-“ button to setting high or low alarm.
2. Two alarm functions included:
Heat up Alarm and Cool Down Alarm

Heat Up Alarm – you set the alarm value to 150°C during the temperature being risen slowly. Then the thermometer will be alarming beep sounds when the current temperature meets or exceeds the ALARM value 150°C.

Cool Down Alarm – you set the alarm value to -10°C during the temperature being dropped slowly. Then the thermometer will be alarming beep sounds when the current temperature meets or exceed the ALARM value -10°C.

3. Press the ON/OFF button once. Then you can turn the deep sound off when the thermometer is alarming.
4. Press the ON/OFF button once also can turn on the light.

Calibration Procedure

Step 1) Make sure you have a certified reference thermometer that is at least twice the accuracy of the thermometer to be recalibrated. E.g., RD0370R

Step 2) Make sure you have a good high accuracy calibrator that works at 0°C or preferable over the range you will be using the thermometer. See SCCAL-9-Calibrator or SCCAL-2-Calibrator. Again, the calibrator must have precision better than the test thermometer. For example, ice baths are only barely acceptable for thermometers with an accuracy of +-2.0C. See www.scigiene.com for a more detailed explanation.

Step 3) Place both the reference and thermometer(s) to be tested in the calibrator following the calibrator’s instructions precisely and set the calibrator at 0.0°C. Then wait at least 10 seconds to allow the probes to all stabilize at the calibrator temperature. If necessary, adjust until the reference thermometer reads precisely 0.0° C. Wait 10 seconds and then press the Cal button on the thermometer being calibrated for 2 seconds. The thermometer is now precisely calibrated at 0.0°C.

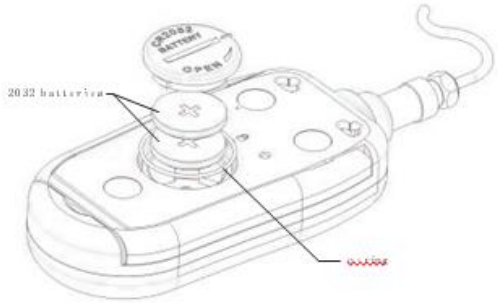
Step 4) If possible, the reference and test thermometer should be similarly tested at other points. If these are significantly out of specification the thermometer should be removed from service.

Alarm Display Hidden

Press the “-”button till the alarm value equal to -40°C, 2.Press one more time the “-”button, then the alarm display will be hidden as below picture.

1. Use a small coin to open the Battery door and turn it counter-clockwise until the small triangle feature on top of the battery door is lined up with the “Un-lock” symbol.

[After alarm display hidden]



2. Take out the door and replace the battery. Make sure the original o-ring is inside the battery chamber. Line up the small line feature on top of the battery door with the “Un-lock” symbol. Then Insert the battery door into the chamber and turn it clockwise till the small line feature on top of the battery door is lined up with the “Lock” symbol.

1295 Morningside Ave., Unit 16-18
Scarborough, ON M1E 0A7, Canada
Phone: 416-261-4865 Fax. 416-261-7879
www.scigiene.com

HANDHELD DIGITAL THERMOMETER

User Manual

Part #: RD3305

Specifications

Measuring Range: 40°F to 572°F/-40°C to 300°C
Accuracy: ±0.5°C (-10°C to 100°C),
±1°C (-20°C to -10°C)(100°C to 150°C) Otherwise ±2°C
Resolution: 0.1°F(0.1°C)
Display Size:32mm X 20mm
Response: 4 seconds – 15 seconds (From 25 °C to 100°C)
Probe: 2 wire PT100 RTD, 150mm x 4mm
Battery: CR 2032 3V Button
Auto-off: 1 hour
Waterproof: IP68
Body: ABS material
This thermometer has been factory calibrated

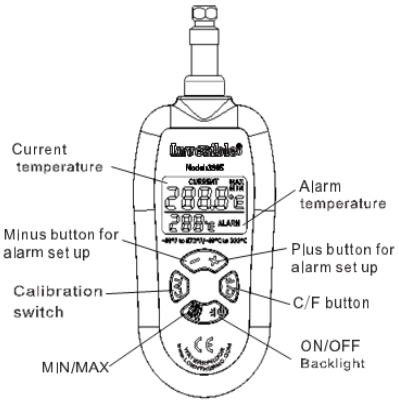
Features

ON/OFF and Backlight --- Press [ON/OFF] once to power on. Then Press ON/OFF anytime the unit is on will enable the Backlight for 3 seconds, and will mute an active alarm. Press and Hold the ON/OFF for 4seconds to power down.

°C/°F --- Press °C/°F button on the back of the thermometer to select the desired temperature unit [Internal switch]

Min/Max--- Minimum and maximum temperature value memories

CAL ---Calibration

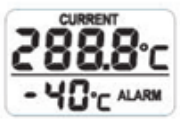


“+”“-” ---Use this two buttons to set your alarm temperature

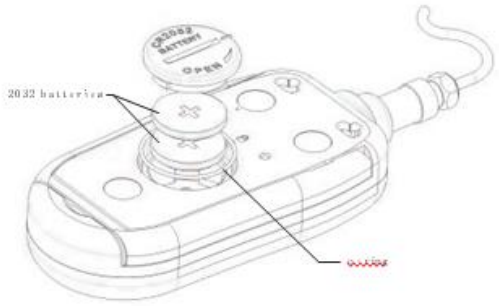
Alarm Display Hidden

Press the "-"button till the alarm value equal to -40°C, 2.Press one more time the "-"button, then the alarm display will be hidden as below picture.

1. Use a small coin to open the Battery door and turn it counter-clockwise until the small triangle feature on top of the battery door is lined up with the "Un-lock" symbol.



[After alarm display hidde



2. Take out the door and replace the battery. Make sure the original o-ring is inside the battery chamber. Line up the small line feature on top of the battery door with the "Un-lock" symbol. Then Insert the battery door into the chamber and turn it clockwise till the small line feature on top of the battery door is lined up with the "Lock" symbol.

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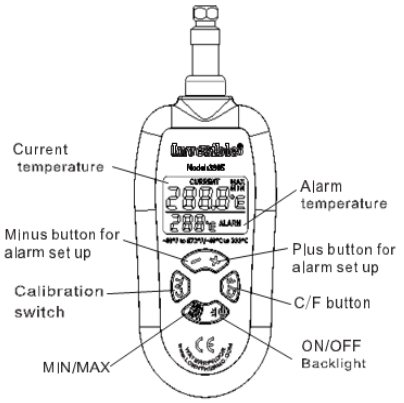

Setting Alarm

5. Press "+" or "-" button to setting high or low alarm.
6. Two alarm functions included:
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Cool Down Alarm – you set the alarm value to -10°C during the temperature being dropped slowly. Then the thermometer will be alarming beep sounds when the current temperature meets or exceed the ALARM value -10°C.

7. Press the ON/OFF button once. Then you can turn the deep sound off when the thermometer is alarming.
8. Press the ON/OFF button once also can turn on the light.

Calibration Procedure

Step 1) Make sure you have a certified reference thermometer that is at least twice the accuracy of the thermometer to be recalibrated. Eg. RD0370R https://www.scigiene.com/Scigiene-Reference-Thermometer-NIST-Traceable

Step 2) Make sure you have a good high accuracy calibrator that works at 0°C or preferable over the range you will be using the thermometer. https://www.scigiene.com/SCCAL-9-Calibrator or https://www.scigiene.com/SCCAL-2-Calibrator. Again, the calibrator must have precision better than the test thermometer. For example, ice baths are only barely acceptable for thermometers with an accuracy of +-2.0C. See: www.scigiene.com for a more detailed explanation.

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Step 4) If possible the reference and test thermometer should be similarly tested at other points. If these are significantly out of specification the thermometer should be removed from service.

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