

Instruction Manual

SkyRC TLD001 Thermologger Duo

SK-500043
V1.0

Introduction

The TLD001 is a smart Bluetooth-enabled Thermologger Duo with the dedicated RC Gears app. It can measure and log temperature data of the ESC, motor, battery pack and other accessories. The temperature graph and historic records can be accessible via the RC Gears app. The TLD001 Thermologger Duo supports a type K thermocouple, which is very accurate and convenient to use.



Features

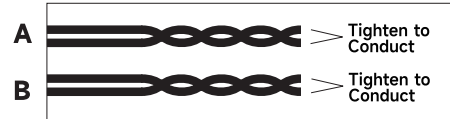
- High-accuracy thermocouple sensor
- Easily switchable between fahrenheit and celsius
- Simultaneous testing is possible with dual channel
- Real-time battery power checking
- Low power consumption design
- The temperature graph and history of testing data are accessible
- Wide measurable temperature range from -20 to 210°C (-4~410 °F)
- Compact design

General Operation

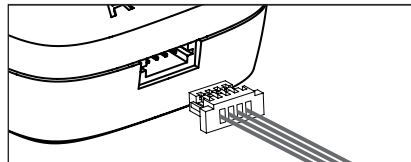
- 1, The thermocouple wires are thirty centimeters long and you can cut it to a suitable length depending on the scenarios.

Notes:

Once the thermocouple wires are cut, they must be tightened to conduct. There are two sets of thermocouple wires which are A and B. A set of thermocouple wires is composed of two wires that can only be tightened with one another.



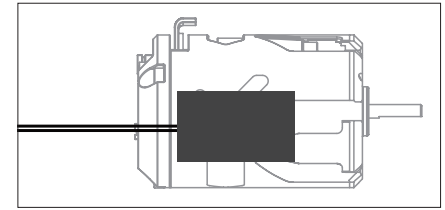
- 2, Insert the thermocouple wire to the Thermologger Duo and make sure it's inserted in the correct direction.



- 3, Fix the thermocouple wire on the object to be measured.

Notes:

The copper foil sticker included can only be used when the temperature of the measured object is below 100°C. Otherwise, it will decrease viscosity if it exceeds 100°C. While a thermocouple fixing glue (need to be purchased separately) can be used above 100°C.



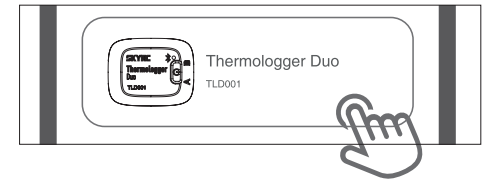
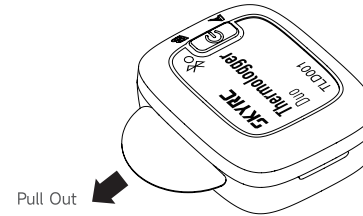
- 4, Scan the QR code on the manual or gift box to download and install the RC Gears app.



RC Gears app



- 5, After the app is installed, pull out the insulation film when using it the first time. Long-press the power button two seconds to power it on. Enable the Bluetooth on the smartphone and launch the app, select the Thermologger Duo. The app will automatically search nearby devices and then you need to select it manually.



- 6, Select the temperature unit.
- 7, Select the channel and two channels can be used to measure simultaneously.
- 8, Select the testing time with the selectable range from 1 to 60mins.
- 9, Select the sampling interval. The interval can be 1 to 5 seconds when the testing time is less than 30mins. While it will be 2 to 5 seconds when the testing time is more than 30mins.
- 10, Click Start to test.
- 11, Once the testing is completed, click Read Data to view the temperature graph, Min. Max. and Avg. temperature.
- 12, The testing data can be shared via the screenshot and excel file.
- 13, The devices can be powered off with the four methods below after the testing is completed.
 - a. Long-press the power button for five seconds until the LED indicator turns off after two consecutive flashes.
 - b. Click the Turn off button in the app.
 - c. The device will be powered off automatically after the testing is completed and the Bluetooth is disconnected for five minutes.
 - d. The device will be powered off automatically ten minutes later when there is no task to be executed and no real-time temperature captured by the app during the Bluetooth connection.

LED Indicator

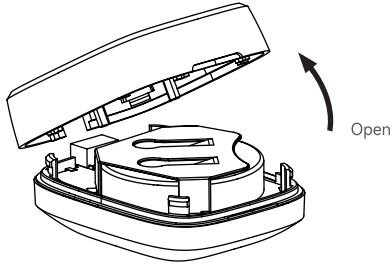
LED Status	Explanation
Flash once every second	Power on with Bluetooth unconnected
Solid blue	Ready to test with Bluetooth connected
Flash once every three seconds	Testing
Turn off after two consecutive flashes	Power off

Specification

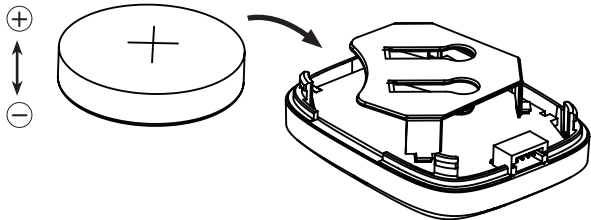
- Working Voltage: 2.4V~3.6V
- Working Current: < 4.6mA@DC3V
- Battery Type: CR2450 3V Lithium Coin Battery
- Measurement Range: -20°C ~210°C (-4 °F ~410 °F)
- Measurement Accuracy:
 - 20~100°C (-4~212 °F): ±2.0°C (35.6 °F)
 - >100°C (212 °F): ±2%
- Thermocouple Cable Length: 30cm
- Thermocouple Type: Type K
- Communication: BLE 5.0
- Range: ≤ 15m
- Working Temperature: 0°C ~40°C (32 °F ~104 °F)
- Working Humidity: 5%-90% (no condensation)
- Storage Temperature: -10°C ~50°C (14 °F ~122 °F)
- Storage Humidity: 1%-75% (no condensation)
- Size: 38*30*16mm
- Weight: Approx. 17.5g

Battery Replacement

1, Open the battery compartment.



2, Push the old battery out and insert the new battery. Please note that the positive polarity should be upward and the negative polarity should be downward.



EU Compliance Statement

SkyRC Technology Co., Ltd. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of the Directive 2014/53/EU.
A copy of the EU Declaration of Conformity is available online at <https://www.SkyRC.com/downloads>

Warranty and Service

We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes. This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification or as a result of failure to observe the procedures outlined in this manual.

Note:
The warranty service is valid in China only.
If you need warranty service overseas, please contact your dealer in the first instance, who is responsible for processing guarantee claims overseas. Due to high shipping cost, complicated custom clearance procedures to send back to China. Please understand SkyRC can't provide warranty service to overseas end user directly.
If you have any questions which are not mentioned in the manual, please feel free to send email to info@SkyRC.com

Manufactured by SkyRC TECHNOLOGY CO., LTD.

The manual is subject to change without notice;
please refer to our website for the latest version!