



Operation Manual

iTracKing II Thermo King Mobile App

Revision A

Introduction

This manual is published for informational purposes only and the information furnished herein should not be considered as all-inclusive or meant to cover all contingencies. If more information is required, consult your Thermo King Service Directory for the location and telephone number of the local dealer.

Thermo King's warranty shall not apply to any equipment which has been "so installed, maintained, repaired or altered as, in the manufacturer's judgment, to affect its integrity."

Manufacturer shall have no liability to any person or entity for any personal injury, property damage or any other direct, indirect, special, or consequential damages whatsoever, arising out of the use of this manual or any information, recommendations or descriptions contained herein. The procedures described herein should only be undertaken by suitably qualified personnel. Failure to implement these procedures correctly may cause damage to the Thermo King unit or other property or personal injury.

There is nothing complicated about operating and maintaining your Thermo King unit, but a few minutes studying this manual will be time well spent.

Performing pre-trip checks and enroute inspections on a regular basis will minimize operating problems. A regular maintenance program will also help to keep your unit in top operating condition. If factory recommended procedures are followed, you will find that you have purchased the most efficient and dependable temperature control system available.

All service requirements, major and minor, should be handled by a Thermo King dealer for four very important reasons:

- They are equipped with the factory recommended tools to perform all service functions.
- They have factory trained and certified technicians.
- They have genuine Thermo King replacement parts.
- The warranty on your new unit is valid only when the repair and replacement of component parts is performed by an authorized Thermo King dealer.

Machine Information Policy

Use of this product serves as acceptance of the Thermo King Machine Information Policy available at: [Thermo King Transport Refrigeration Solutions | Asia Pacific](#). This product includes an optional feature that collects and shares Machine Information with Thermo King. Separate terms may apply when a customer has entered into an agreement with Thermo King.

Software License

The product includes software that is licensed under a non-exclusive, non-sublicensable, terminable and limited license to use the software as installed on the product for its intended purpose. Any removal, reproduction, reverse engineering, or other unauthorized use of the software is strictly prohibited. Hacking the product or installing unapproved software may void the warranty. The owner or operator shall not reverse engineer, decompile, or disassemble the software, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation. The product may include third party software separately licensed as specified in any documentation accompanying the product or in an about screen on a mobile application or website that interfaces with the product.

Emergency Assistance

Thermo Assistance is a multi-lingual communication tool designed to put you in direct contact with an authorized Thermo King dealer.

Thermo Assistance should only be contacted for breakdown and repair assistance.

To use this system, you need the following information before you call: (phone charges will apply)

- Contact Phone Number
- Type of TK Unit
- TK Unit serial number
- TK TBOX serial number
- Probable Cause of Fault
- Warranty Details of the Unit
- Payment Details for the Repair

Introduction

Leave your name and contact number and a Thermo Assistance Operator will call you back. At this point you can give details of the service required and the repair will be organized.

No payment at point of repair for customers with a ThermoKare service contract or with a guaranty of payment from their Thermo King home-dealer.



General Inquires and Unit Maintenance

For general inquiries please contact your local Thermo King dealer.

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THERMO KING

App Overview

iTrackKing II is Thermo King's latest telematics system for truck and trailer refrigeration units, designed to give fleet managers and drivers complete visibility and control over their assets. With real-time monitoring of operating status via phone or PC web, users can operate, diagnose, and maintain refrigeration units efficiently. This ensures cargo safety and quality, improves reaction speed, enhances operational efficiency, and reduces operating costs.

Equipped with GPS/Beidou positioning, 4G GPRS communication, and reliable data transmission, iTrackKing II provides seamless connectivity. The system supports expanded communication via CAN bus, RS232, and RS485, while its 4-way temperature and humidity sensors, door switches, and fresh air door controls allow precise monitoring and management of the cargo environment.

Designed for durability, the TBOX features IP67 protection, ensuring reliable performance in diverse operating conditions. The intuitive, customizable web interface enables operations managers and logistics coordinators to track, trace, and manage the cold chain with ease, supported by comprehensive dashboards and reporting tools.

App Information

Item	Content
App Name	TK iTrackKing
Version	1.1.9 or Higher version
Languages	Chinese, English

Download link for the APP installation package:

https://iot.zhvddata.com:8780/iTrackKing_test.apk

Key Functions

Function	Description
 Remote Monitoring	Monitor & control refrigeration unit in real-time
 Temperature Control	Set and adjust temperature parameters
 Alarm Management	View and handle alarm notifications
 Location Tracking	GPS location tracking for equipment
 Historical Data	Query historical operation records

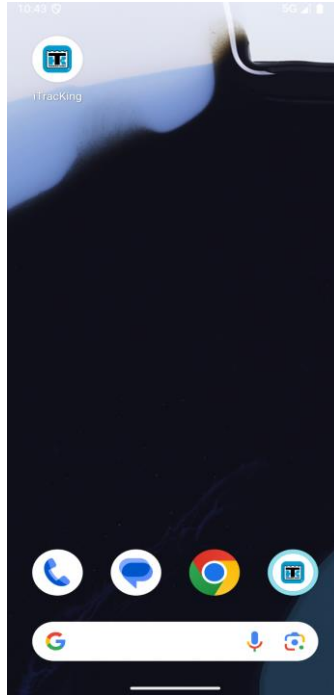


Figure 1. iTracKing App Icon

Home Screen

Interface Description

Area	Description
Top Bar	Shows device ID and name
Center	Displays refrigeration unit image
Temperature Display	Setpoint and Return Temperature
Signal Indicator	Top-right shows connection status
Alarm Icon	Red warning icon when alarm active 

Bottom Navigation

Icon	Function	Description
	iTracKing	Return to home
	Mine	Personal center

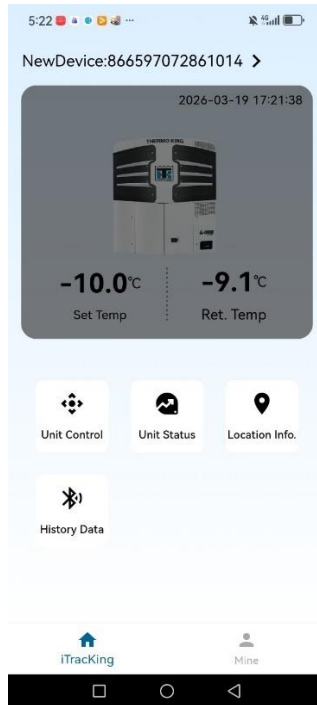


Figure 2. iTracKing App Home Page

Unit Control

Access Path

Home → Unit Control

Control Options

Option	Description
Setpoint	Set target temperature value
Clear All Alarms	Clear all current alarms
Cycle Sentry/Continuous	Select operation mode
Manual Defrost	Manually defrost function
Remote ON	Remote turn on unit
Remote OFF	Remote turn off unit

Operation Steps

Modify Setpoint:

1. Click the edit icon next to "Setpoint" 
2. Enter target temperature value
3. Confirm and save

Clear Alarms:

1. Click "Clear All Alarms"
2. Confirm the action

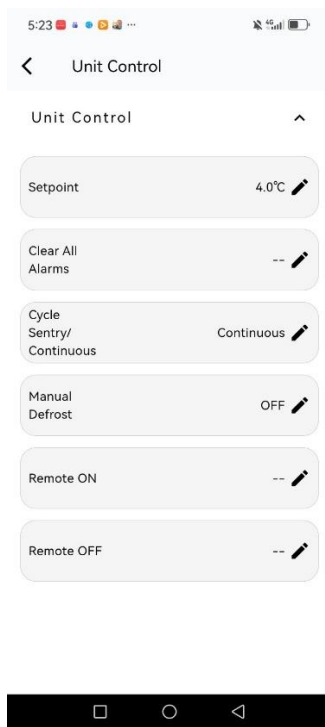


Figure 3. Unit Control

Unit Status

Home → Unit Status

Status Categories

Category	Content
Unit Info	Power status, ambient, return air temp, pressure
Alarm Info	Alarm code, description, level
Device Info	Unit serial, controller serial
Position Info	GPS latitude and longitude

Unit Info Parameters (Not complete list, the actual situation shall prevail)

Parameter	Description
Power Status	Equipment on/off status
Ambient	Surrounding environment temperature
Return Air Temperature	Return air temperature
Suction Pressure	Compressor suction pressure
Discharge Pressure	Compressor discharge pressure
Total Unit Run Hours	Total accumulated running hours
Engine Hourmeter	Engine running hours

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Alarm Info Fields

Field	Description
Alarm Code	Numeric alarm code
Alarm Description	Alarm text description
Alarm Level	Such as "OK TO RUN", "No Alarm"

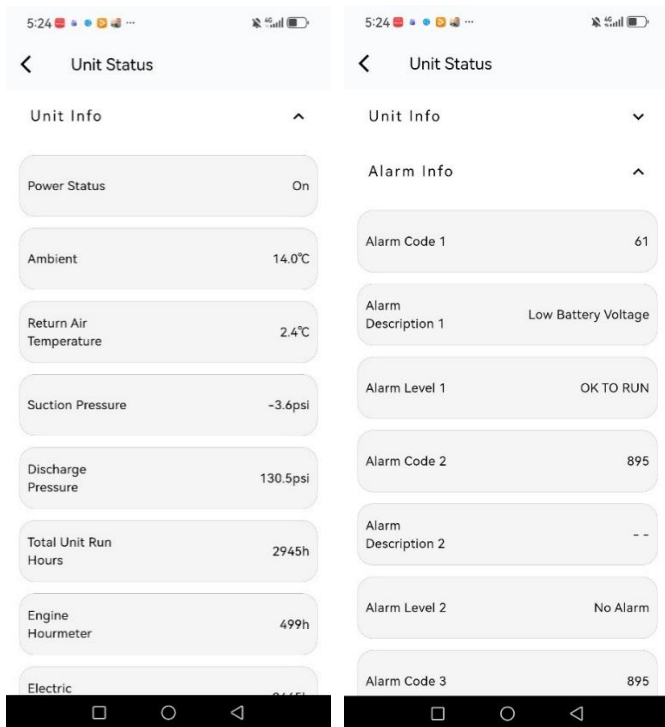


Figure 4. Unit info and Alarm Info.

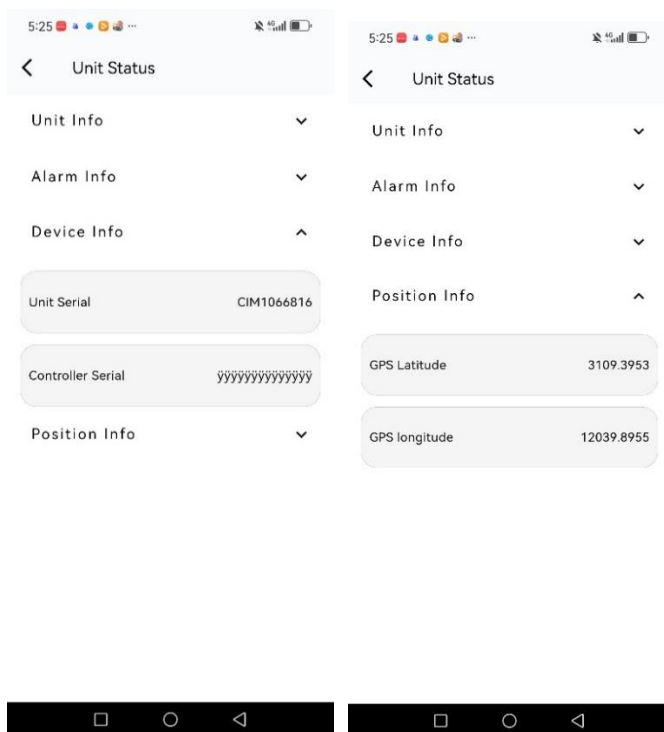


Figure 5. Device Info and Position Info

Location Info

Access Path

Home → Location Info

Function Description

Function	Description
Map Display	Shows equipment current location
Location Pin	Red pin marks exact position
Address Details	Bottom shows detailed address
Zoom Control	Supports map zoom operations + -

GPS Coordinates

- Latitude: GPS Latitude
- Longitude: GPS Longitude



Figure 6. Location Info

Historical Data

Access Path

Home → Historical Data

Time Selection

Option	Description
3 Hours	Last 3 hours data
12 Hours	Last 12 hours data
1 Day	Last 1 day data
Custom	Custom time range

Display Modes

Mode	Icon	Description
Chart		Line chart shows trends
Table		Detailed data list
Statistics		Max, Min, Average values

Selectable Parameters (Not complete list, the actual situation shall prevail)

Parameter	Description
Power Status	On/off status
Ambient	Ambient temperature
Return Air Temperature	Return air temperature
Suction Pressure	Suction pressure
Discharge Pressure	Discharge pressure
Total Unit Run Hours	Total running hours

Statistical Info

Statistic	Description
Max	Highest value in time period
Min	Lowest value in time period
Average	Average value in time period

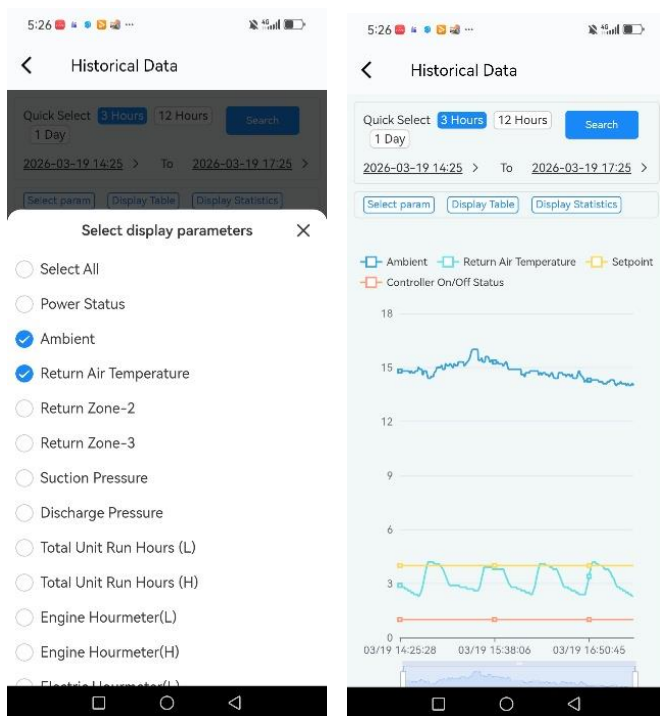


Figure 7. Historical Data & Parameter

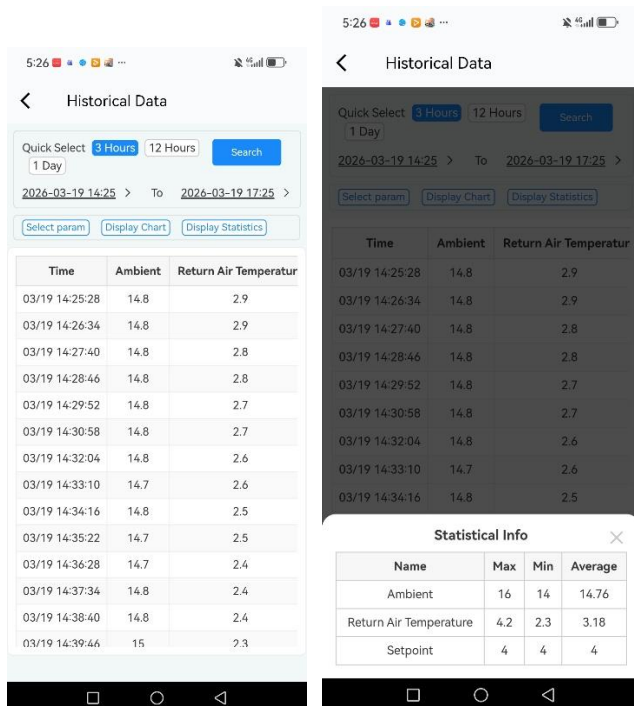


Figure 8. Table view & Statistical Info

Personal

Access Path

Bottom Navigation → Mine

Function Menu

Function	Description
 Cold Machine Management	Manage bound refrigeration units
 Cold Machine Authorization	Equipment permission management
 Hotline service	Customer service contact
 Switch language	Chinese/English switch
 Detection upgrade	Check app updates
 Log out	Log out current account

User Information

- Display username
- Display user role (e.g., Administrator)

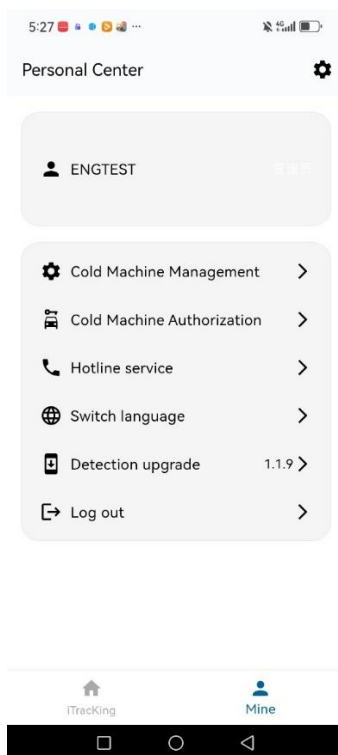


Figure 9. Personal Center

iTracKing II device TBOX

	Domestic	International
Serial Ports	Single channel CAN Single channel 485 Single channel 232	Single channel CAN Single channel 485 Single channel 232
Operating voltage	9 to 36 Vdc	9 to 36 Vdc
Protective class	IP67	IP67
Environmental Storage Temperature	-40 to +85 °C	-40 to +85 °C