

## **PREFACE**

Thank you for purchasing the new Wireless Vacuum Gauge. In order to use this product safely and correctly, please read this User Manual thoroughly, especially the Safety part. After reading this guideline, it is recommended to keep the manual and product at an easily accessible place, preferably close to the device, for future reference.

## **LIMITED WARRANTY AND LIABILITY**

Uni-Trend guarantees that the product is free from any defect in material and workmanship within one year since the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination and improper handling. The dealer shall not be entitled to give any other warranty on behalf of Uni-Trend. If you need warranty service within the warranty period, please contact your seller directly.

This warranty is the only compensation you can obtain. Besides, Uni-Trend does not provide any express or implied warranty, e.g. an implied warranty for some particular purpose. Uni-Trend will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by any reason or speculation. As some areas or countries do not allow limitations on implied warranties and incidental or subsequent damage, the above limitation of liability and stipulation may not apply to you.

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## 1. Product Overview

The UT336V is a compact, portable and high-precision digital vacuum measurement tool with Bluetooth function. It is mainly used to measure the vacuum degree in refrigeration and heat pump systems, and to determine the degree of dehumidification and impurity removal, which is suitable for the installation, debugging and maintenance of refrigeration and heat pump systems.

## 2. Product Features

- High-precision sensor ;
- Maximum 8000 off-line data storage;
- Support mobile APP to record data, and export data for report generating;
- IP54 rating;
- Support ambient temperature measurement and multiple unit switching;
- Hand strap design; Easy to place and measure.

## 3. Configurations

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AA Battery.....	3
Hanging Hook.....	1
Cloth Bag (Hard) .....	1
Warranty Card.....	1

If any components are missing or damaged, please contact your dealer.

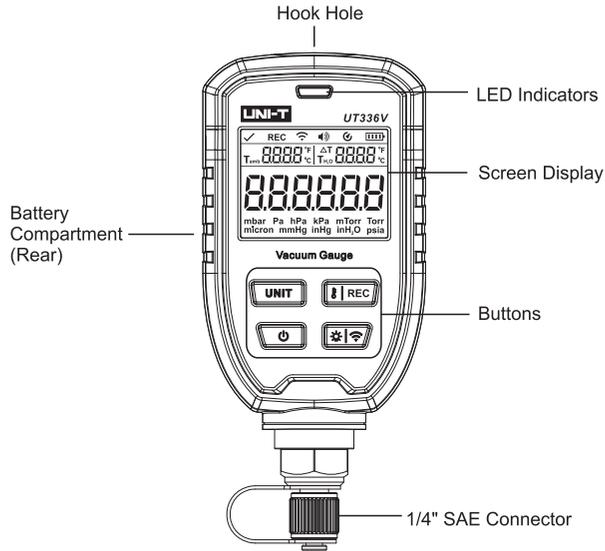
## 4. Safety

Read the Safety carefully and follow the instructions before using the device.

⚠ "Warning" identifies the dangerous situations and operations may cause to users. "Caution" identifies the potential damages may cause to products or test equipment.

- Check the device and accessories before you use the device. Do not use it any more if the housing of device is damaged or it fails to work normally.
- Do not disassemble the device or alter the internal wires randomly to avoid device damage.
- Do not store or use the device in the flammable, combustible and strong electromagnetic environment.
- Use soft cloth and neutral detergent to clean the housing of device. Do not use abrasives and solvents to avoid housing corrosion and device damage. Do not wash the device directly to avoid circuit board get wet.
- The maintenance and repair service must be done by the qualified professional staffs or specified maintenance department.
- Take the battery out to avoid battery leak if it is not used for a long time.
- The standard battery is a non-rechargeable AA battery, please do not charge it;
- When the low battery  is displayed on the LCD , please replace the battery in time for its normal use;

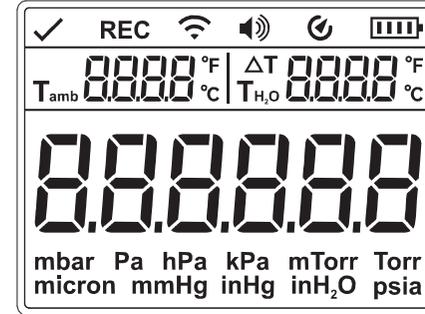
### 5. Product Structures



### 6. Buttons

Buttons	Short Press	Long Press
	Vacuum unit switching	Temperature unit switching
	TH <sub>2</sub> O , ΔT switching	Record ON/OFF
	/	Power on/off
	Backlight ON/OFF	Wireless connection ON/OFF

### 7. Icon Display



Icons	Descriptions	Icons	Descriptions
	APP connected		Ambient temperature
<b>REC</b>	Data recording		Temperature difference
	Wireless connection		Saturation temperature of H <sub>2</sub> O
	Sound prompts		Measured vacuum
	Auto power on/off		Vacuum unit
	Battery state		

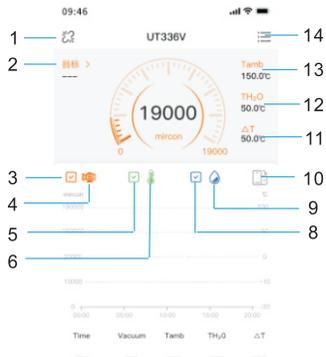
## 8. Operations

### 1) Basic Operations

- a) Long press the 'POWER' button to power on the device;
- b) In atmospheric pressure environment, the device will be displayed "----". When the vacuum degree is within the measurement range (1~2533Pa), the current vacuum pressure will be displayed.
- c) Use a regular 1/4" SAE connector to connect the vacuum gauge to the vacuum system that needs to be measured.
- d) To ensure accuracy, especially for vacuum levels below 20 Pa, data should be read after the sensor's thermal equilibrium data has stabilized (stabilization is defined as no significant change within 2 minutes). Higher vacuum levels below 5 Pa can quickly achieve thermal equilibrium for the vacuum gauge.

### 2) APP Details

- a) Before you use the device, please download and install the APP on your mobile phone (For installation methods, please refer to the mobile APP download instructions below)
- b) Long press  button, the wireless Bluetooth icon flashes, connect the mobile APP, enter the main interface, and the wireless icon is in solid light.



1	Return: Exit the connection and back to the connection interface
2	Targeted vacuum set
3	Vacuum on/off
4	Vacuum degree
5	Ambient temperature on/off
6	Ambient temperature
7	Record: Start or stop recording
8	Saturation temperature of H <sub>2</sub> O on/off
9	Saturation temperature of H <sub>2</sub> O
10	Landscape/ portrait mode
11	Temperature difference
12	Saturation temperature of H <sub>2</sub> O
13	Ambient temperature
14	Settings Menu

## 9. Technical Specification

Vacuum measurement range/resolution	0~25.331mbar 0~2533.1Pa 0~25.33hPa 0~2.533kPa 0~19000mTorr 0~19.000Torr 0~19000micron 0~19mmHg 0~0.74803inHg 0~10.17inHzO 0~0.36799psia	0.001mbar 0.1Pa 0.001hPa 0.0001kPa 1mTorr 0.001Torr 1micron 0.001mmHg 0.00001inHg 0.001inHzO 0.00001psia
Accuracy	1~10000micron	±(10%+0.0134)mbar ±(10%+1.34)Pa ±(10%+0.0134)hPa ±(10%+0.00134)kPa ±(10%+10)mTorr ±(10%+0.01)Torr ±(10%+10)micron ±(10%+0.01)mmHg ±(10%+0.00039)inHg ±(10%+0.005)inHzO ±(10%+0.00019)psia
	10000~19000micron	±20%
Overload pressure	27.5bar	
Ambient temperature range/resolution/accuracy	-10~50°C, 0.1, ±0.5°C	
Data record	8000	
Data recording interval	1s~1h(APP Settings)	
LED	During the leak test, the LED turns green after reaching the target vacuum level and red when exceeding the maximum allowable vacuum level (decay value).	
APP	iENV	
Auto power off	No operation within 10 minutes (Controllable via the APP setting switch; Only takes effect when the wireless connection is disconnected in the power-on state)	
Battery type	1.5V AA*3	
Battery life	100h (Turn off the backlight)	
IP rating	IP54	
Working environment	-10~50°C, <90% RH (non-condensing)	
Storage temperature	-20~60°C, <80% RH (non-condensing)	
Size	145*68*39mm	
Weight	~245g	

## 10. Mobile APP Download

Download the mobile APP iENV in the following ways:

- For iOS devices, search and download iENV in App Store;
- For Android devices, search and download iENV in Google Play or scan the QR code to download.



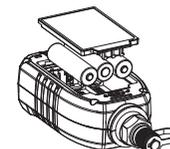
## 11. Maintenance

### a. General Maintenance

- If the product is not used for a long time or is stored in an environment with a temperature above 50°C, please take out the battery to avoid battery leakage.
- Please ensure the battery polarity is correct when you install the battery.
- Use a clean cloth and mild detergent to wipe the housing regularly. Do not use abrasives or solvents to clean the product.
- Do not open the housing randomly to avoid product damage.
- The maintenance and service must be done by the professional personnel or qualified departments.

### b. Battery Installation and Replacement

- The standard battery is 3\*1.5V AA battery, please refer to the following figure for installing or replacing the battery.
- Place the panel of device facing down, open the battery cover and take the battery out; install the new battery as per the polarity of battery.
- Tighten the battery cover after installing the new battery.
- Install batteries in same and standard types.



The User Manual is subject to change without prior notice!

Due to different batches, the materials and details of actual products may be slightly different from the graphic information, please refer to the actual product received. Experimental data provided in the page is from internal laboratory of UNI-T, but it should not be a reference for customer to place orders. Any questions, please contact the customer service, thanks!