

ΣΕΤ ασύρματου μετρητή πίεσης Uni-T UT336P

UNI-T · EAN 6935750534151

Machine translation from Polski. In case of doubt the manufacturer's original document prevails.

UT336P Kit

Wireless Manometer with Temperature Sensor

User Manual

INTRODUCTION

Thank you for purchasing the new wireless manometer. To use this product safely and correctly, please carefully read this user manual, especially the section dedicated to safety. After reading this manual, it is recommended to keep it together with the product in an easily accessible place, preferably near the device, in case you need to refer back to it.

LIMITED WARRANTY AND LIABILITY

Uni-Trend guarantees that the product is free from any material and workmanship defects for a period of one year from the date of purchase. This warranty does not cover damages caused by accident, neglect, improper use, modification, contamination, and incorrect handling. The seller is not authorized to provide any other warranty on behalf of Uni-Trend. If service assistance is needed during the warranty period, please contact the seller directly.

This warranty constitutes the sole compensation that can be obtained. Furthermore, Uni-Trend does not provide any express or implied warranties, such as implied warranties of merchantability or fitness for a particular purpose. Uni-Trend is not liable for any special, indirect, incidental, or consequential damages arising from any cause or speculation. Since in some regions or countries, limitations on implied warranties and incidental or consequential damages are not allowed, the above limitation of liability and provisions may not apply to you.

1. Product Description

The UT336P KIT with a wireless manometer is used to measure pressure in the air conditioning system, allows for offline data logging, monitors the long-term operation of refrigeration systems and heat pumps, and is equipped with a 3.5 mm socket for connecting a temperature sensor. By using the temperature sensor, you can check the temperature of the refrigerant pipes at high and low pressure and the degree of overheating/overcooling via a mobile app, making the device suitable for installation, debugging, and maintenance of

refrigeration systems and heat pumps.

2. Product Features

- LED indication: high pressure in red, low pressure in blue.
- Up to 8000 data records in offline mode.
- Support for external temperature sensors to measure the temperature of refrigerant pipes.
- Support for mobile apps for data logging and exporting, as well as generating reports.
- IP54 protection rating.
- 10 pre-set refrigerants. Support for mobile apps to change refrigerants.
- Handle design. Easy placement and measurement.

3. Configurations

- Wireless manometer
- User manual
- Safety guide
- General file download guide
- AA battery x3
- Temperature sensor UT-T19
- 1/4" SAE swivel arm
- 1/4" SAE tee connector

In case of missing or damaged components, please contact the seller directly.

4. Safety

Before using the device, carefully read the safety information and follow the instructions.

- If the device will not be used for an extended period, remove the battery to prevent electrolyte leakage.
- Do not charge standard AA batteries.
- If the LCD displays a low battery level symbol, replace it in a timely manner.

5. Product Structure

Number Descriptions

High pressure indicated by a red LED. Low pressure indicated by a blue LED. Display area

Button area

1/4" SAE connector

Battery holder (at the back)

Wrist strap hole

3.5 mm socket for temperature sensor

6. Buttons

Buttons Short press Long press Button combination

Unit Switch Change unit of pressure temperature Set zero point

Record Refrigerant Not recording

Power On/Off On/Off Screen backlight switch Not powered Bluetooth icon

Bluetooth Display switch On/Off High/low pressure Not Bluetooth

7. Display

Low pressure icon High pressure icon

Data recording icon Bluetooth icon

Auto power off icon Battery icon

Refrigerant type Low pressure temperature

High pressure temperature Overheating icon

Overcooling icon Temperature value; Temperature unit

Pressure value Pressure unit

8. Operation

1) Inserting the battery

a) Slide the switch to the right to open the battery compartment cover.

b) Insert the battery according to the polarity markings and close the cover.

2) Basic operation

a) Press and hold the "POWER?" button to turn on the device; the pressure value will appear on the screen.

b) Press and hold the "POWER?" and "Bluetooth" buttons simultaneously to switch between high and low pressure.

c) After turning on the power, the pressure value should be 0; if not, press and hold the "Unit" and "Record" buttons simultaneously to reset the indicator.

d) Use a standard fluorine tube with a 1/4" SAE connector and connect the manometer to the air conditioning system.

e) The device has 10 pre-set types of refrigerants that can be changed using the mobile app connected via Bluetooth.

f) Connect the iENV mobile app to view data, export reports, etc.

g) After connecting the temperature sensor UT-T16, a short press of the "Bluetooth" button will cause the display to cycle through: evaporation temperature/low pressure temperature (TL)/overheating (SH at low pressure) or condensation temperature/high pressure

temperature (TH)/subcooling (SC at high pressure). Notes: The TL/SH and TH/SC parameters can be measured after connecting the temperature sensor UT-T19; if the sensor is not connected, the symbol "- -" will be displayed. 3) Using the application

a) Press and hold the "Bluetooth" button – the Bluetooth icon will start flashing, indicating that a connection has been established with the mobile application iENV, and then you will proceed to the main screen (in real-time). 1) Return: Disconnect and return to the connection screen. 2) Types of refrigerants: Users can set and update 10 types of refrigerants in the device. 3) High/low pressure value: Automatically displayed in the applications when switching between high and low pressure. 4) Condensation/evaporation temperature: Automatically displayed in the applications when switching between high and low pressure. 5) High/low pressure temperature: Automatically displayed in the applications when switching high/low pressure. 6) Overheating/subcooling: Automatically displayed in the applications when switching high/low pressure. 7) Recording: Start or stop recording (current data is recorded only by a separate application, not synchronously by the device). 8)

Refresh: Resume recording (Icon will appear after stopping the recording). 9) Save: Edit recordings; export reports in PDF format and CSV files, etc. (Icon will appear after stopping the recording). 10) Settings menu. 11) Data details interface: Check if data is available. b)

Settings menu

1) Data history: Saved data history can be viewed separately. 2) Device data: Display current memory content of the device, export or delete data, etc. 3) Dual indicator: Simultaneous display of high and low pressure data in the main interface. 4) Units: Change pressure and temperature units. 5) Recording interval: Ability to set from 1 s to 1 hour. 6) Alarm: Set high and low pressure/temperature alarm thresholds. 7) Date and time: Set the device's date and time. 8) Auto power off: ON/OFF, automatic power off after 10 minutes of inactivity if the Bluetooth connection is lost, no button operations are performed, and the device is not in recording mode. 9) LED indicator: Turn LED lights on and off. Device information: Device name; model; serial number; firmware version; firmware update; factory reset. 10) Reset: Reset high and low pressure values. 9. Technical data and default settings

1) Technical data

Range/Resolution

Accuracy

Types of refrigerants: 10 preset settings available (configured via the application, a total of 94)

High/low pressure switch: Supported (high pressure, HP) (low pressure, LP)

Data logging

Data logging frequency

LED indicators: Red (HP); Blue (LP); on/off via the application. Mobile application: Supported, connect the "iENV" application via Bluetooth.

Auto power off: The device will automatically turn off after 10 minutes of inactivity. (On/Off via the application; in the ON mode, the function only works in case of Bluetooth disconnection and when the device is not recording.)

Battery life: 100 hours (alkaline battery; backlight off; LED on; logging interval every 1 minute)

Battery type: 3 AA alkaline batteries

IP protection rating

Operating temperature and humidity

Storage temperature and humidity

Temperature range

Accuracy

2) Default settings (factory settings)

Parameters: Default value

High/low pressure: Low pressure

Default refrigerant: R22

Pressure unit: Bar

Temperature unit: °C

Temperature display area: Evaporation temperature

Logging frequency: 1 minute

Auto power off: ON. LED indicator: ON. Screen backlight: OFF. 10.

Downloading the mobile application

The iENV application for your phone can be downloaded as follows:

- a) For iOS, search for and download the iENV application in the App Store.
- b) For Android, search for and download the iENV application in Google Play.

The user manual may change without prior notice! Due to different batches, materials, and details, actual products may differ slightly from the graphic information; please refer to the product you actually received. The experimental data provided on this page comes from the UNI-T internal laboratory but should not serve as a reference point for customers when placing orders. If you have any questions, please contact customer service, thank you!

Warnings and safety information

All information regarding operation and usage can be found in the user manual or on the

product label. Before starting to use the products, familiarize yourself with its content and follow the instructions contained therein. Before use, also review the following information:

User safety

1. Use measuring tools according to their intended purpose. Do not use measuring tools for tasks they were not designed for to avoid damage or incorrect measurement results.
2. Always ensure that the tool is in good technical condition before use. Damaged tools, such as cracked housings or broken displays, may lead to incorrect measurements or pose a risk of accidents.
3. Regularly calibrate measuring tools to ensure their accuracy and reliability of measurements. Incorrectly calibrated devices may lead to erroneous results.

Precautions

1. Use appropriate eye protection, especially when working with measuring tools that may emit radiation.
2. Keep measuring tools away from children and untrained individuals to prevent accidental damage or improper use.
3. Avoid using measuring tools in extreme temperature or humidity conditions, or in an atmosphere with high dust concentration, which may affect their accuracy and functionality.
4. When working with measuring tools, exercise caution not to damage delicate measuring elements (e.g., sensors, probes).

Safe usage

1. Always ensure that the measuring tool is properly set up and secured to avoid measurement errors or damage.
2. Use measuring tools only in designated areas that provide adequate stability and minimize the risk of accidents, such as slippery or uneven surfaces.
3. Never take measurements on live components or in conditions that may pose a safety hazard.

Rules for use in appropriate conditions

1. Store measuring tools in a dry, cool place, away from moisture and direct sunlight, which may damage the devices or affect their accuracy.
2. When using measuring tools, ensure they are well seated and not exposed to shocks or impacts that may lead to damage.
3. Avoid using measuring tools in places with extreme conditions, such as heavy vibrations, hot surfaces, dust, or moisture, unless the tool is designed for such conditions by the manufacturer.

Maintenance instructions

1. Regularly check the condition of measuring tools, especially measuring elements (e.g., sensors, probes, displays) and batteries.
2. Follow the cleaning instructions provided by the manufacturer. Use appropriate cleaning materials (e.g., soft cloths) to avoid damaging delicate elements.
3. Regularly calibrate measuring tools according to the manufacturer's recommendations to maintain measurement accuracy.

Safe disposal

1. Used or damaged measuring tools should be disposed of in accordance with applicable environmental protection and electronic recycling regulations.
2. Do not throw measuring tools in regular waste containers, as they may contain environmentally harmful components.
3. Contact local authorities or recycling companies for information on proper disposal of used measuring tools.

Compliance statement

The products have been designed in accordance with the safety requirements specified in Regulation (EU) 2023/988 on general product safety, ensuring compliance with applicable safety and health standards for users.

Environmental protection

Used electronic equipment marked in accordance with the European Union directive must not be placed together with other municipal waste.

It is subject to selective collection and recycling at designated points. By ensuring its proper disposal, you prevent potential negative consequences for the natural environment and human health. The system for collecting used equipment complies with locally applicable environmental protection regulations regarding waste disposal. Detailed information on this can be obtained from the municipal office, waste management facility, or the store where the product was purchased. The product meets the requirements of the so-called New Approach directives of the European Union (EU), concerning issues related to user safety, health protection, and environmental protection, identifying hazards that should be detected and eliminated. This document is a translation of the original user manual created by the manufacturer. Detailed information about the distributor/manufacturer warranty conditions is available on the website <https://serwis.innpro.pl/gwarancja>.

The product should be regularly maintained (cleaned) by the user or through specialized service points at the user's cost and responsibility. In the absence of information about necessary periodic or service maintenance actions in the user manual, the user should

regularly, at least once a week, assess the physical condition of the product against that of a physically new product. If any deviation is detected or noted, urgent maintenance (cleaning) or service steps should be taken. Failure to properly maintain (clean) and respond upon detecting a state of deviation may lead to permanent damage to the product. The guarantor is not responsible for damages resulting from negligence.

Importer:

INNPRO Robert Błędowski sp. z o.o. EU Representative
ul. Rudzka 65c UNI-TREND TECHNOLOGY EU GMBH Affinger
44-200 Rybnik, Poland Strasse 12 86167 Augsburg, Germany
tel. +48 533 234 303
hurt@innpro.pl Manufacturer
www.innpro.pl Uni-Trend Technology (China) Co., Ltd. No. 6,
Industrial North 1st Road, Songshan Lake Park,
Dongguan City, Guangdong Province, China
info@uni-trend.com

Safety precautions

Before starting to charge, check if the device contacts are clean. Never leave the device unattended while in use and charging. Ensure that you can quickly disconnect the device from the power source in an emergency. Never expose the device to high temperatures. Charge the device in a dry and well-ventilated place away from flammable materials, maintaining a minimum space of 1m from other objects. Never cover the device while charging. Never use a power supply, charging station, cables, etc., without the manufacturer's recommendation and certification. Take care of your property; the device is equipped with cells that are difficult to extinguish, so equip yourself with a fire blanket.

LI-ION Battery

The device is equipped with a LI-ION (lithium-ion) battery, which ages over time and use due to its physical and chemical structure. The manufacturer specifies the maximum operating time of the device under laboratory conditions, where optimal working conditions for the device exist, and the battery itself is new and fully charged. Actual operating time may differ from that declared in the offer and this is not a defect of the device but a characteristic of the product. To maintain maximum battery life, it is not recommended to discharge it below 3.18V or 15% of total capacity. Lower values, such as 2.5V for the cell, permanently damage it and this is not covered by the warranty. If the battery or the entire device is not used for

more than one month, the battery should be charged to 50% and its charge level should be checked periodically every two months. Store the battery and device in a dry place, away from sunlight and negative temperatures.

LI-PO Battery

The device is equipped with a LI-PO (lithium-polymer) battery, which ages over time and use due to its physical and chemical structure. The manufacturer specifies the maximum operating time of the device under laboratory conditions, where optimal working conditions for the device exist, and the battery itself is new and fully charged. Actual operating time may differ from that declared in the offer and this is not a defect of the device but a characteristic of the product. To maintain maximum battery life, it is not recommended to discharge it below 3.5V or 5% of total capacity. Lower values, such as 3.2V for the cell, permanently damage it and this is not covered by the warranty.

In the event of discontinuing the use of the battery or the entire device for more than one month, the battery should be charged to 50% and its charge level should be checked periodically every two months. Store the battery and device in a dry place, away from sunlight and negative temperatures. Product battery specifications

Feature Value

EAN Code 6935750534151

Battery Category General-purpose portable battery

Battery Type Portable alkaline batteries (manganese zinc) (LR)

Contains Cadmium/Lead (>0.002% Cd, Not >0.004% Pb)

Net Weight (kg) -

Capacity (mAh) -