

UNI-T®

Handheld Digital Gauss Meter



UT335A/UT335B/UT335C

User Manual



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PREFACE

Thank you for purchasing the Handheld Digital Gauss Meter. To use this product safely and correctly, please read this manual thoroughly. After reading this manual, it is recommended to keep the manual 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 from the purchase date. This warranty does not apply to damage 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 authorized service center or send the product back with problem description.

This warranty is the only compensation you can obtain. 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.

1. Product Overview

Handheld Digital Gauss Meters in UT335 series are measuring tools with miniature design, high sensitivity and wide measurement range in the magnetic field, mainly for the strength of magnetic field on the surface of magnet, featured accurate measurement, high accuracy, high stability, etc. Products in this series take HD TFT screens, wide angle of view, humanized UI design, and easy-to-use.

2. Applications

Magnetic Field Strength Detection in Production Line Magnet, Magnetization and Demagnetization in Permanent Magnet, Consistency Detection in Magnet Product, Magnetic Strength Detection of Motor, QC Judgment of Magnet, Environmental Magnetic Field Detection, Magnet Speed Detection, etc.

3. Features

- Power-on Auto-Zeroing Calibration, Manual Zeroing Calibration via Buttons.
- Low Consumption Design, Long Battery Life of 16h.
- Built-in Rechargeable Lithium Battery, Battery Status Icon Indication.
- 50 Sets of Data Storage, No Loss of Data When Power off.
- Full Color TFT LCD Display, User-Friendly UI Interface, Easy-to-Operate.

4. Technical Parameters.

- Auto Out-of-Limit Alarm Indication
- Sensor: Hall Sensor
- Resolutions of Magnetic Field: 0.01 Gs / 0.01mT
- Measurement Range: 0-30kGs / 0-3000mT
- Measurement Accuracy: $\pm 1\%$ (UT335C), $\pm 2\%$ (UT335B), $\pm 5\%$ (UT335A)
- Battery Life: About 16h (Continuous Running Mode)
- Working Temperature: -20~60°C (Sensor of Test Pen in Maximum 125°C)
- Charging Interface: Type-C Interface
- Size of Handheld Digital Gauss Meter: About 140*63*30mm (Exclude Probe)
- Data Storage: Built-in 50 Sets of Data Storage, No Loss of Data When Power off.
- Weight of Handheld Digital Gauss Meter: About 120g
- Weight of Probe: About 32g
- Battery: 750mAh/3.7V
- Power input: 5V DC/1A

5. Buttons

Buttons	Icons (Silk Print)	Operation	Functions
ZERO Button	ZERO	Long Press	Sensor zeroing in the main measurement interface.
HOLD Button	HOLD	Short Press	Display the HOLD data in the main measurement interface.
LEFT Button		Short Press	Move cursor/ Subtract value
		Long Press	Fast value subtracting
RIGHT Button		Short Press	Move cursor/ Add value
		Long Press	Fast value adding
POWER/Confirm Button		Short Press	Confirm/Selected
		Long Press	Power on/off

6. Operations

6.1 Power On/Off

a. In the OFF status, long press POWER button  for 3-5s, “Starting” is showed on the screen, that is Power On and then enter the default main interface: Magnetic Field Detection.

b. In the ON status (Screen lights up), long press POWER  for 3-5s, “Shutting Off” is shown on the screen, and that is Power Off.

6.2 Zeroing Calibration

In the power-on status, enter the main interface of Magnetic Field Detection, place the TEST side of sensor far away from the magnetic field, long press “ZERO” button, and “Zeroing Calibration OK” will be showed on the right top of the screen, indicating the zeroing calibration is completed.

Notes:

- a. Because the earth itself carries magnetic fields, still about $\pm 0.5\text{Gs}$ of value jumping after the zeroing calibration, it is normal.
- b. The device will complete the auto zeroing calibration in the power-on moment, so please be away from the magnetic field at that moment.

6.3 Magnetic Field Measurement

In the Magnetic Field Measurement interface, take the cap of test pen down, and face the black sensing element (TEST side) to the measured magnetic field. Short press “HOLD” button to hold the current data (The HOLD value will be showed on the bottom side). Move the cursor to “SAVE”, short press POWER button  to confirm (Abbreviate this button action to “Confirm”), and save the current HOLD value to the specified record history (if any HOLD value is currently available).

Move the cursor to the “Clear” option and confirm to zeroing the current MAX and HOLD value.

Note: Please connect the probe before your measurement.

6.4 QC Test

In the magnetic field measurement interface, select “Return” and confirm to enter the main menu, move the cursor to the “QC Test” and confirm to enter the QC Test mode, align the probe with the measured target, select “Test” and confirm to test the sample step by step (Press once in each product test), select “Clear” and confirm to zeroing the current data.

Note: Set the upper/lower limit of magnetic field and parameters of magnetic pole in the “Alarm Limit”).

6.5 Counting Velocity Measurement

In the main menu, select “Counting Velocity Measurement” and confirm to enter the Counting Velocity Measurement mode, select “Wheel Diameter” and confirm, and then press LEFT and RIGHT buttons  to set the corresponding “Wheel Diameter”. Fix a magnet with appropriate size on the proper position of the measured product to test its speed or counting. Select  and confirm to lock the buttons.

Notes: a. During the velocity measurement, fasten the magnet and keep it at a proper distance from the sensor, to avoid the hidden damage.

b. In the interface of Counting Velocity Measurement, the screen will not auto off.

6.6 Record History

In the main menu, select the “Record History”, confirm to enter and check the saved HOLD value and the data of magnetic field pole (Maximum 50 data).

Select the targeted data, short press “ZERO” button to delete one recorded data, and long press “ZERO” button to delete all data record history.

6.7 Alarm Limit

In the main menu, select the “Alarm Limit” and confirm to enter, select the targeted content, and enter the editable status when the text is flashing in blue, press LEFT and RIGHT button to change each value (Long press to fast add or fast subtract), confirm again after change, and exit the edit mode.

6.8 Battery-Saving Setting

In the main menu, select the “Battery-Saving Setting” and confirm to enter, set the screen-off time, auto power-off time and alarm sound ON/OFF, and move the cursor to the  , indicating the function disabled.

Note: When the alarm sound is ON, the device only alarms when the measured value is out of limit in the main interface of magnetic field test.

6.9 Unit Setting

In the main menu, select “Unit Setting” and confirm, switch the unit of magnetic field to “Gs” or “mT”. The unit of velocity and mileage can be switched to “km/h” or “mph”.

6.10 Calibration (Operated by Professional Personnel)

In the main menu, select “Calibration” and confirm to enter the Calibration mode, select “Calibration Factor” and short press “Confirm”, input the password, press LEFT and RIGHT button, adjust the value of password to 0018 to modify. (The default value: 0.100T-1.000, 2.00T-1.000)

Note: No need to change the column of Factory Calibration!

6.11 Charging

When plug the USB and start to charge the device, the indicator lights up in green. During the charging, the battery icon shown on the screen changes alternatively between green and white. After being fully charged, the battery icon is shown in green and the indicator lights off.

6.12 Accessories and Others

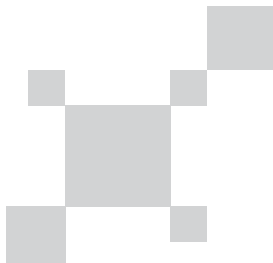
- a. Handheld Digital Gauss Meter *1
- b. Probe *1 c. Gift Box *1
- d. Charging Cord *1 e. User Manual *1

Notes:

- a) The sensor probe is a sensing element, remove the protective cap when you use it, and cover it after using.
- b) When power on the device, hold the sensor probe far away from the magnetic field to avoid affecting the power-on zeroing calibration.
- c) The waterproof rating of product is IP3X, please keep the device away from any water source. Place the device in a dry and ventilated environment when you don't use it.
- d) Fully charge the battery if it is not used for a long time, to avoid battery consumption and affect the battery life.

The 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 on the page is from internal laboratory of UNI-T, but it should not be a reference for customers to place orders. Any questions, please contact the customer service, thanks!



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