UT373

Mini Non-contact Tachometer User Manual

UT373 is a stable, safe and reliable non-contact tachometer. The core of the design is the microcontroller. photoelectric speed sampling processing, unique design makes it a superior performance tachometer.

To avoid electric shock or injury, please read Safety Instructions and Warnings before operating this product.

II. Open Box Inspection

Open the package box and take out the device. Please check whether the following items are deficient or damaged and contact your supplier immediately if they are.

1.Battery 1.5V AAA	3	рс
2.Reflective strips	6	pcs
3.User manual	1	pcs

III. Safety Instruction

In this manual, a Warning identifies conditions and actions that pose hazard(s) to the user or the test device.

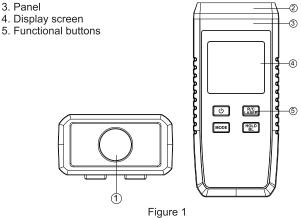
- 1) Before use, inspect the tachometer for any damage. Pay particular attention to the insulation cover and the display screen. Do not use the meter if it is not working properly
- 2) Follow the operation instructions.
- 3) Do not point the laser directly into eyes.
- 4) Do not change the internal circuit.
- 5) When low power symbol **\sup** appears, replace the battery as soon as possible. Remove the battery if the meter is left unused for long time.
- 6) Do not store or use the meter in high temperature, high humidity, explosive, or strong magnetic field environments.
- 7) Use soft cloth and detergent to clean the case, do not use abradants or solvents.

IV. Symbols

\triangle	Warning
	Low power
(€	Comply with European Union standards

V. Structure(figure 1)

- 1. Laser emission and receiving terminal
- 2. Case
- 3. Panel
- 4. Display screen



VI. Indicators (figure 2)

- 1. Data hold
- 2. Laser ON
- 3. Maximum value
- 4. Minimum value
- 5. Low power
- 6. Signal receiving
- 7. Count measurement 8. Auto power off
- 9. RPM measurement

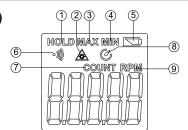


Figure2

VII. Buttons and setup

- 1. Short press: Power ON/OFF, long press: switch ON/OFF auto power off function. indicates auto power off.
- 2. Short press: switch between RPM and COUNT modes. Long press: turn ON/OFF the laser.
- 3. Continued in the second sec minimum value); long press em to delete the records. If there is signal input after power ON, maximum and minimum value will be recalculated. Under COUNT mode: press MODE to reset the count to zero
- 4. Short press to turn ON/OFF data hold function. Long press to turn ON/OFF backlight.

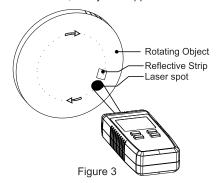
VIII. Operation instructions

1. RPM measurement (see figure 3)

To avoid injury and damage, keep the distance between tachometer and the object over 50mm.

- 1) Stop the rotating device
- 2) Cut the reflective strip(10mm *10mm) and place on rotating device.
- 3) Fix the meter to a location 50~200mm from the rotating object.
- 4) Short press to turn on the meter, point the laser to the relective strip (vertical angle≤30°)
- 5) Turn on the rotating device to measure.

When measuring RPM<50, pulse period may be long. Keep the meter still to ensure accuracy. Wait for the above two pulse signals to be accurate. The reading does not change if pulse period longer than 7 seconds. If rotating speed>99999RPM, OL symbol appears to indicate overrange.



2. Count measurement

For illuminant objects

- 1) Fix the meter to a location 50~200mm from the rotating object. (vertical angle≤30°)
- 2) Short press to turn on the meter and short press to select mesurement mode. Point the laser to the objects to be measured.
- 3) After scanning the illuminant objects, the meter accumulate the count and display the quantity.

Note: Object to be measured should be illuminant.

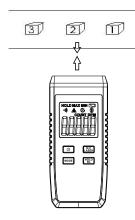


Figure 4

For objects with external optical source.

- 1) Fix the meter to a location 50~200mm from the rotating object. (vertical angle≤30°)
- 2) Fix the optical source to the location at the other side of objects and opposite to the meter.(figure5)
- 3) Short press to turn on the meter, long press to turn off the laser.
- 4) When the objects pass by the meter and optical source the meter will accumulate the count and display quantity.

Note: If quantity >99999, OL symbol appears to indicate overrange. Press to reset the reading to 0.



Figure 5

IX. Technical specifications

- 1. General specifications
- Maximum display: 99999
- Overrange display: OL
- Low power: **►**
- Refresh rate:1s~7s(according to rotating rate)
- Sensor type: photosensitive diode and laser tube
- Measuring distance: 50mm~200mm
- Drop test: 1m
- Battery: 1.5V(AAA)

2. Operating environment

- Indoor
- ●Altitude: ≤2000 meters
- Safety standards : EN61010-1; EN61010-031; EN61326
- Class of pollution: 2
- Operating temperature:0°C~50°C (32~122°F)
- Storage temperature:-20°C~+60°C (-4~140°F) (≤80%RH)

3. Electric specifications

- Ambient temperature:23°C±5°C (64.4~82.4°F)
- Ambient humidity: ≤80% RH

(1) RPM

Range	Resolution	Accuracy	
10∼9999.9r/min	0.1r/min	± (0. 04%+2)	
10000~99999r/min	1r/min	<u> </u>	

(2) COUNT

Range	Resolution	Max input frequency
0~99999	1 digit	10KHz, 5% of pulse width

 \triangle Warning: To avoid false reading and injury, please do not open the case of the meter.

X.Maintenance

1.General maintenance

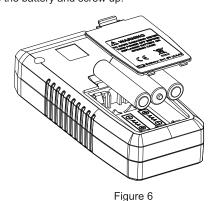
- a. The maintenance and service must be implemented by qualified professionals or designate departments.
- b. Clean the case with a dry cloth. Do not use abradants or solvents.

2.Battery installation & replacement.

The meter uses three AAA 1.5V alkaline batteries for operation.

To install or replace the battery:

- a. Unscrew the battery cover, remove the cover and install new batteries ensuring that the correct polarity is observed.
- b.Use the batteries of the same type
- c.Replace the battery and screw up.



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说明书菲林做货要求:

序号 项目		目	内容				
1 尺寸 展开: 21			0*240mm	ı 折后:1	05*	60mm	
2 材质 60g书纸							
3 颜色 单色双面印			卩刷				
4	4 外观要求 完整清晰			版面整	洁,无斑墨	、殍	栈损、毛边、刀线错位等缺陷。
5 装订方式 5		无					
6 表面处理		处理	无				
7 其它 无							
版	本						
修	改页	码	REV.2 修改成版	设分有限公司			
	VH 计	黄荣信	₹2018.06.25	MODEL 机型:	Ut373		Part NO. IEP/N: 物料编号:新P/N 110401106966X
Ch 审:	ℲK 核					***	L
APF 批	PRO. 准				1 - 7 8		利德科技(中国)股份有限公司 TREND TECHNOLOGY (CHINA) CO., LTD.