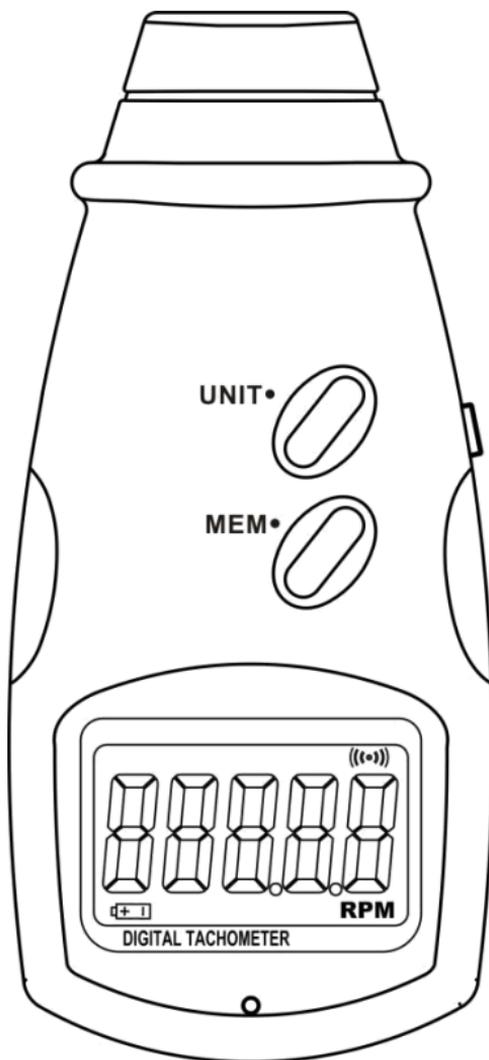


# HOLDPEAK

## 9234C

### Instruction Manual



## 1.Product Introduction

Thank you for purchasing the Digital Tachometer.The Digital Tachometer is Non-Contact RPM(revolutions per minute)measuring instruments. Features include a 5 digits LCD,scan/hold function and auto power off(30 seconds).To measure, Press the measuring trigger, point the Laser spot to the object. and hold on till the reading is stable and end of shot.

### 1-1 Features

- Measurement type:Rotation Speed(RPM)、 Total revolutions(REV).
- Laser sighting.
- 5 digital microprocessor-controlled LCD display.
- Can store 10 sets of data, each group of data includes a MAX measurement, a MIN

measurement, a AVG measurement.

- Auto back light
- Ultra low power consumption in shutdown mode.

## **2.Safety Information**

Read the following safety information carefully before attempting to operate or service the meter. Only qualified personnel should perform repairs or servicing not covered in this manual.

### **2-1 Laser Warning Note!**

- This product contains a Class 2 laser ; use caution when operating this device with the laser on.
- Do not look directly into the laser beam. Permanent eye damage may result.

- Do not point the laser at anyone's eyes.
- Use caution when operating the laser around reflective surfaces.

## **2-2 Cautions!**

- Do not submerge the unit in water.
- Do not use this instrument in the inflammable and explosive environment.
- Don't under the environment of easy corrosion, radioactive gas using the instrument.
- Do not use the instrument in a lot of fog, steam and particle environment.

## **2-3 Symbols**

 Indicates CE conformity



The device may not be disposed of with the trash. It

Promotes the reuse recycling and other forms of recovery of used materials and components, and to improve the environmental performance of all operators ( manufacturers, traders and treatment facilities ) involved in the life cycle of products.

Dispose of the product appropriately in accordance with the regulations in force in your country,

### 3.Specification

Range of Non-Contact	7.0-99,999(RPM)
Total number of revolutions	1-99999(REV)
Accuracy	7.0-5999.9 RPM:±0.01%and±1digit 5999.9-99999RPM:±0.05%and±1digit
Detection	Laser Diode
Resolution	7.0-9999.9RPM:0.1RPM 10000-99999RPM:1RPM
Response Time	1 second
Operating Temp	0 to 50°C(32 to 122°F), 10 to 90%RH

Auto power off	Automatically after approx.30s
Max/Min/Avg	Yes
Memory	40points
Battery Type	4×1.5V AA Size Battery or 6V direct current stable voltage power
Dimensions	160×73×40mm(7.17”x1.93”x1.14)
Weight	156g Approx(without battery)
Standard Accessories	4×1.5V AA Size Battery,Instruction manual,Reflective tape length 600mm,Carrying Case

## 4.Operation

### 4-1 Quick Start

A.Remove the screws of the battery cabinet by a screwdriver. Slide the battery cover away from the Instrument and install the batteries into the case .

B.Stick the self-adhesive reflective tape on the object

whose rotational speed is to be measured. The reflective tape should be stocked as close to the outer edge of the object to be measured as possible.

C. Hold the tachometer in your hand.

D. If press the UNIT button to change display no RPM, Please press UNIT button until display RPM (Please see page 11: **The UNIT Button Function Declaration**,

E. Press the MEAS button. Point the laser spot at the object (the reflective tape) probe to the object. Then read the measurement on the LCD display.

## 4-2 Unit Diagram

D: UNIT button

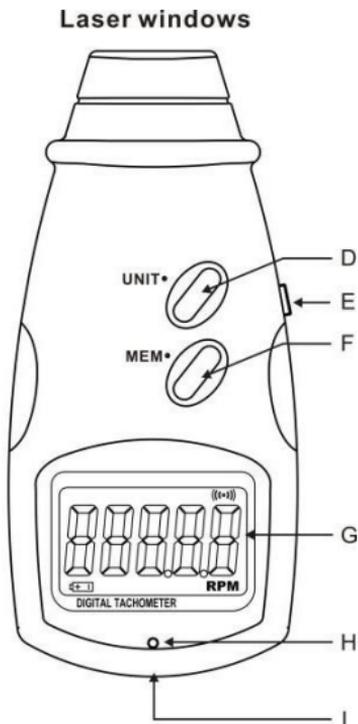
E: Measure button

F: Memory button

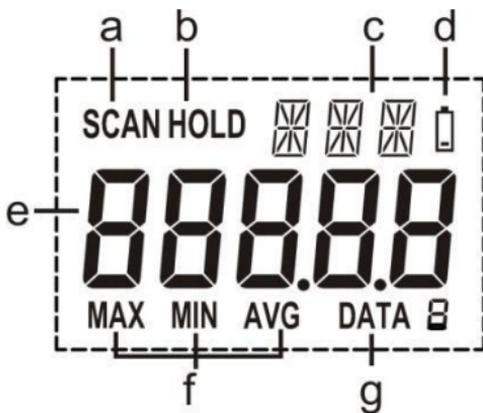
G: Display window

H: Sensor of auto back light

I : Battery cover



## 4-3 Display



a. Scan: Press the measuring button, the data will update and “SCAN” will show.

b. Hold: Release the measuring button, the data will freeze and “Hold” will appear.

c. Unit display: Displays measuring units.

d. Low battery display: When the battery current is weak,  Will show.

e. Main display: 5 digit LCD displays measurement readings.

f. Max/Min/Avg display:Displays minimum,maximum and average value.

g. Data:Displays the number of data storage.

c.

#### **4-4 Function Descriptions**

In Scan mode,the current measurement is displayed on the main display.The main display will hold the last values until the tachometer automatically turns off.

#### **Memory mode:**

The tachometer can store of recall 10 selectable MAX measurements,10 selectable MIN measurements,10 selectable AVG measurements and 10 selectable DATA measurements.

#### **To store a measurement:**

Use the MEM button to scroll and view the stored data point.

1. See the flow chart 1 for a brief presentation of how to recall the stored data sequentially.

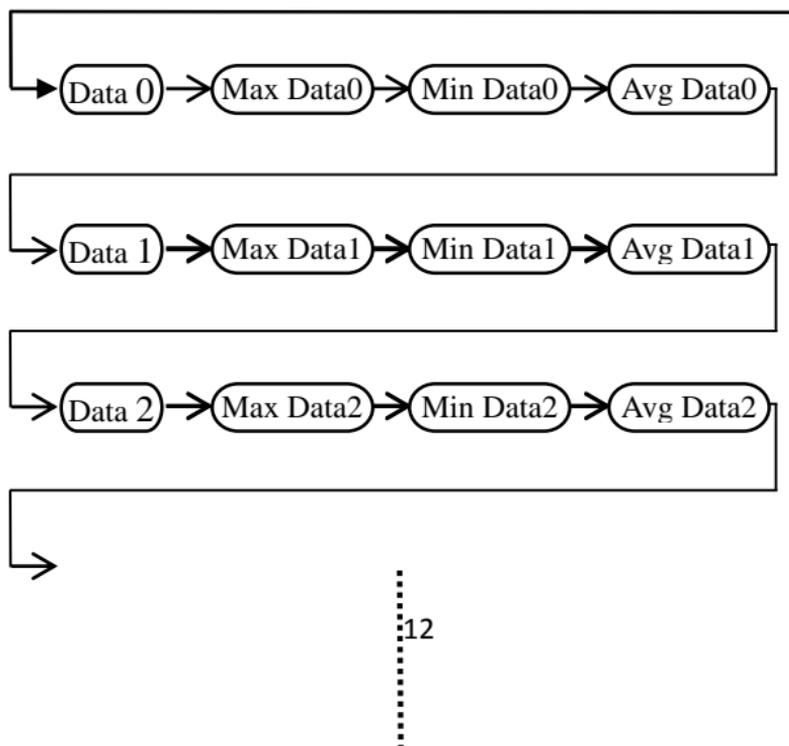
2. See flow chart 2 for a brief presentation of how to quick access or leap the data set to the next.

Stored data points will appear in the main display. Empty

Memory locations will read "—". Maximum, minimum and average data will appear in the RPM display with MAX/MIN/AVG symbol.

## Chart 1

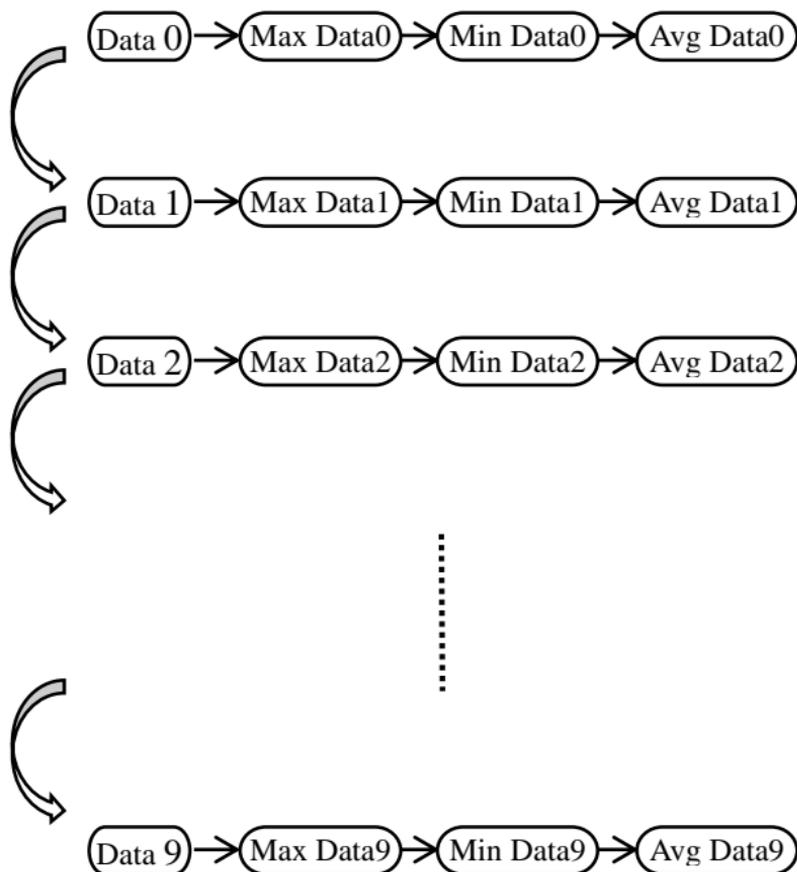
Press the “M” button once to next Storage



## Chart 2

Press the “M” button and hold for approx.

3sec to leap to next Data Set.



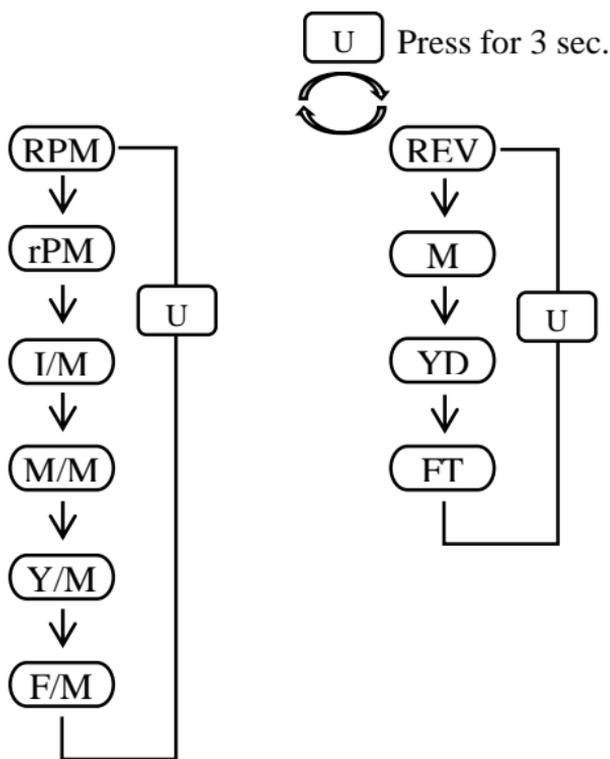
### **The UNIT Button Function Declaration:**

The functions are separated into two groups of measurement. One is the rate measurement which is shown on the left side of the following flow chart. The other is the revolution and length measurements which are shown on the right side of the following flow chart.

The user can press the “UNIT” button once to change

from RPM,rPm....,to the next sequentially.

Press the “UNIT”button and hold for approx.3sec to leap to next group, Can select to REV test



- RPM:Non-Contact revolutions per minute measurements(rotation rate test,only select it).
- rPm:Contact revolutions per minute measurements.
- I/M:Contact Inch per minute measurements.
- M/M:Contact Meter per minute measurements.
- Y/M:Contact Yard per minute measurements.
- F/M:Contact Feet per minute measurements.
- REV:Revolution measurements.
- M:Length(Using the master 10cm circumference wheel.)measurements in the unit of meter.
- Y D:Length measurements in the unit of feet.

## Remark

Non-contact measurement should avoid the blinking light source in the front or around the target, such as the fluorescent lamp which will cause the wrong reading.

## 5.Maintenance

Cleaning the lens:

Blow loose particles from the lens using clean compressed air. Gently brush remaining debris away with a camel's hair brush. Carefully wipe the surface with a cotton swab moistened with water.

NOTE:

DO NOT use solvents to clean the lens.

Clean the housing:

Use soap and water on a damp sponge or soft cloth.



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