Walfront 6236P

Walfront 6236P Digital Handheld Tachometer Instruction Manual

Model: 6236P

INTRODUCTION

The Walfront 6236P Digital Handheld Tachometer is a versatile instrument designed for accurate speed measurement in various industrial applications. It can measure photoelectric speed, rotation speed, and line speed, making it suitable for machinery like lathes, washing machines, and other industrial equipment. This manual provides detailed instructions for the safe and effective use of your new tachometer.

SAFETY INFORMATION

Before operating the Walfront 6236P Digital Handheld Tachometer, please read and understand all safety instructions. Failure to follow these guidelines may result in inaccurate measurements, damage to the device, or personal injury.

- Always ensure the device is powered off when not in use or when changing batteries.
- Do not expose the tachometer to extreme temperatures, humidity, or corrosive environments.
- Avoid dropping the device or subjecting it to strong impacts.
- When measuring rotating machinery, exercise extreme caution to avoid contact with moving parts.
- Use only the specified battery type (1 x 9V 6F22 battery).
- Keep the device out of reach of children.
- Refer to the full manual for comprehensive safety rules and warnings.

PACKAGE CONTENTS

Upon opening the package, verify that all the following items are present and in good condition:

- 1 x Walfront 6236P Digital Tachometer
- 3 x Adhesive Tape (for photoelectric measurements)
- 4 x Accessories (various contact adapters for rotation/line speed)
- 1 x Storage Bag

- 1 x User Manual (this document)

- *Note: 1 x 9V 6F22 battery is not included and must be purchased separately.*

Image: The Walfront 6236P Digital Tachometer, its black storage bag, three types of contact adapters (pointed, conical, flat), and adhesive tape for non-contact measurements.

PRODUCT OVERVIEW

The Walfront 6236P features a compact design with an intuitive button layout and a clear LCD display.

Image: Front view of the tachometer showing the LCD display, ON/OFF, FUNC, TEST, and MEM buttons, and the pointed contact adapter attached to the top spindle.

Image: The tachometer with a pointed contact adapter, accompanied by magnified views of the LCD screen and the contact adapter tip, highlighting details.

Key Components:

- **LCD Display:** 5-digit display for showing measurement readings and mode indicators.
- **ON/OFF Button:** Powers the device on or off.
- **FUNC Button:** Cycles through measurement modes (Photoelectric RPM, Contact RPM, Line Speed).
- **TEST Button:** Initiates and holds the measurement.
- **MEM Button:** Accesses stored maximum, minimum, and last readings.
- **Measurement Spindle:** Located at the top, used for attaching contact adapters.
- **Photoelectric Sensor:** Located near the top, used for non-contact RPM measurements.
- **Battery Compartment:** Located at the rear for 9V battery installation.

SETUP

1. Battery Installation:

1. Locate the battery compartment cover on the back of the tachometer.

2. Slide or unclip the cover to open it.

3. Insert one 9V 6F22 battery, ensuring correct polarity (+ and -).

4. Close the battery compartment cover securely.

2. Attaching Contact Adapters (for Contact Measurements):

For contact RPM or line speed measurements, select the appropriate adapter (pointed, conical, or flat wheel) and firmly attach it to the measurement spindle at the top of the tachometer.

Image: The tachometer with the conical contact adapter attached, ready for contact measurements.

OPERATING INSTRUCTIONS

1. Powering On/Off:

- Press the **ON**/**OFF** button to turn the tachometer on.
- Press the **ON**/**OFF** button again to turn the tachometer off.

2. Selecting Measurement Mode:

Press the **FUNC** button to cycle through the available measurement modes:

- **Photoelectric RPM:** For non-contact measurements using reflective tape.
- **Rotation Speed (Contact RPM):** For contact measurements using the pointed or conical adapter.
- **Line Speed (M/min):** For contact measurements using the flat wheel adapter.

3. Taking Measurements:

For Photoelectric RPM (Non-Contact):

1. Attach a piece of the provided reflective adhesive tape to the rotating object.
2. Select "Photoelectric RPM" mode using the **FUNC** button.
3. Point the tachometer's photoelectric sensor towards the reflective tape on the rotating object. Ensure the effective distance is approximately 50-500mm.
4. Press and hold the **TEST** button. The RPM reading will appear on the LCD.
5. Release the **TEST** button to hold the last reading.

For Rotation Speed (Contact RPM) and Line Speed (M/min):

1. Attach the appropriate contact adapter (pointed/conical for RPM, flat wheel for M/min) to the spindle.
2. Select "Rotation Speed" or "Line Speed" mode using the **FUNC** button.
3. Gently press the contact adapter against the center of the rotating shaft (for RPM) or the surface of the moving line (for M/min).
4. Press and hold the **TEST** button. The reading will appear on the LCD.
5. Release the **TEST** button to hold the last reading.

4. Memory Function:

After taking a measurement, press the **MEM** button to cycle through stored values:

- **MAX:** Displays the maximum measured value.
- **MIN:** Displays the minimum measured value.
- **LAST:** Displays the last measured value.

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Feature	Specification
Item Type	Digital Tachometer
Material	Plastic
Product Model	6236P
Display	5 digit LCD

Feature	Specification
Accuracy	± (0.05% + 5)
Range Selection	Automatic range
Effective Distance (Photoelectric)	Approx. 50-500mm / 1.97-19.69in
Product Size	Approx. 190 x 70 x 35 mm / 7.5 x 2.8 x 1.4 in
Power Supply	1 x 9V 6F22 battery (Battery Not Included)
Power Consumption	Less than 40mA
Measuring Range (Photoelectric Speed)	10-99999 RPM
Measuring Range (Rotation Speed)	1.0-19999 RPM
Measuring Range (Line Speed)	1.00-1999.9 M/min
Resolution (Photoelectric RPM)	0.1rpm (2.5-999.9RPM), 1RPM (≥1000rpm)
Resolution (Rotation Speed)	0.1rpm (0.5-999.9RPM), 1RPM (≥1000rpm)
Resolution (Line Speed)	0.01m/min (0.05-99.99m/min), 0.1M/min (≥100 meters/min)
Manufacturer	Walfront
ASIN	B09LZ99C4H
Date First Available	November 18, 2021

MAINTENANCE

Cleaning:

- Wipe the exterior of the tachometer with a soft, dry cloth.
- Do not use abrasive cleaners or solvents, as they may damage the plastic casing or display.
- Ensure the photoelectric sensor and contact adapters are clean and free of debris for accurate readings.

Storage:

- When not in use for extended periods, remove the 9V battery to prevent leakage.
- Store the tachometer and its accessories in the provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures.

Battery Replacement:

When the battery indicator on the LCD shows low power, replace the 9V 6F22 battery following the installation steps outlined in the "Setup" section.

TROUBLESHOOTING

Problem	Possible Cause / Solution
Device does not power on.	- Battery is dead or low. Replace with a new 9V battery. - Battery inserted incorrectly. Check polarity. - Battery compartment not closed securely.
Inaccurate readings (Photoelectric RPM).	- Reflective tape is dirty or damaged. Replace tape. - Distance to target is outside the effective range (50-500mm). Adjust distance. - Ambient light interference. Try to shield the sensor from strong light sources. - Sensor lens is dirty. Clean gently with a soft cloth.
Inaccurate readings (Contact RPM/Line Speed).	- Contact adapter is not firmly attached or is worn. Replace adapter if necessary. - Insufficient pressure applied to the rotating object. Ensure firm contact. - Object surface is uneven or slipping.
Display shows "OVER" or "----".	- Measurement value exceeds the maximum range of the device. - No signal detected (for photoelectric mode). Ensure proper alignment and reflective tape.

WARRANTY AND SUPPORT

Walfront products are manufactured with high-quality standards. For information regarding warranty coverage, returns, or technical support, please refer to the purchase platform or contact Walfront customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Walfront

For further assistance, you may visit the Walfront Store on Amazon.

Related Documents - 6236P

[VICTOR Electronic Testing and Measuring Instruments Catalog | Digital Multimeters, Oscilloscopes, and More](#)
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