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YXJPP 500N Digital Force Gauge

YXJPP 500N Digital Force Gauge Instruction Manual

Introduction

The YXJPP 500N Digital Force Gauge is a compact, versatile, and high-precision instrument designed for measuring push and pull forces. It is widely utilized across various industries including electronic appliances, construction hardware, light industrial textiles, automotive parts, and scientific research institutions for tasks such as push-pull load testing, insertion force testing, and destructive testing.

This digital display force meter offers high resolution, rapid sampling speed, and user-friendly operation, making it an essential tool for accurate force measurement.



Image: YXJPP 500N Digital Force Gauge, a compact electronic device for measuring push and pull forces.

Key Features

- High precision and high resolution for accurate measurements.
- Simple operation and compact structure for ease of use and portability.
- Large LCD display for clear and convenient data reading.
- Built-in high sensitivity sensor ensures fast measurement speed.
- Supports N, Kg, Lb, and Oz units for selection and conversion.
- Automatic backlight for improved visibility in various lighting conditions.
- Buzzer alarm function for indicating specific events or thresholds.
- Compatible with NK/HP series push-pull dynamometers and various fixtures to form a professional small testing machine.



Image: Core functions diagram illustrating the device's capabilities including backlight display, alarm, push-pull design, wide applicability, stable performance, multiple modes, accurate measurement, and multiple units.



Image: Close-up view of the digital force gauge's LCD screen, demonstrating the automatic backlight feature for enhanced readability day or night.

Setup

1. Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert two (2) AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery compartment cover securely.

Note: Batteries are not included in the parcel and must be purchased separately.

2. Attaching Measurement Accessories

The force gauge comes with various interchangeable attachments for different testing requirements. To attach an

accessory:

1. Gently screw the desired attachment (e.g., flat tip, conical tip, hook) onto the threaded shaft at the top of the force gauge.
2. Ensure the attachment is securely fastened but do not overtighten.
3. For extended reach, an extension rod can be screwed onto the shaft first, and then the desired attachment can be screwed onto the rod.



Image: The digital force gauge with an extended rod and various attachments, demonstrating accessory connection.



Image: A selection of interchangeable measurement attachments for the force gauge, including flat, conical, chisel, and hook tips, for diverse applications.

Operating Instructions

1. Power On/Off

- To power on the device, press and hold the **POWER** button (usually marked with a circle and a vertical line) until the LCD screen illuminates.
- To power off, press and hold the **POWER** button again until the screen turns off. The device may also have an auto-off feature to conserve battery.

2. Unit Conversion

The force gauge supports four units of measurement: Newtons (N), Kilograms (Kg), Pounds (Lb), and Ounces (Oz).

- Press the **UNIT** button to cycle through the available units. The selected unit will be displayed on the LCD screen.



Image: The digital force gauge display showing the four selectable units: Newtons (N), Kilograms (Kg), Pounds (Lb), and Ounces (Oz), with an arrow indicating the unit selection button.

3. Zeroing the Display

Before taking a measurement, it is crucial to zero the display to ensure accuracy.

- With no load applied to the sensor, press the**ZERO** button. The display should show '0.0' or '0.00'.

4. Peak Hold Function

The peak hold function allows the device to capture and display the maximum force applied during a test.

- Press the **PEAK** button to activate the peak hold mode. The display will show 'PEAK' or a similar indicator.
- Apply force; the display will hold the highest value reached.
- Press the **PEAK** button again to exit peak hold mode and return to real-time measurement.

5. Measurement Modes

The device supports multiple measurement modes to meet various testing needs.

- Refer to the specific mode indicators on the LCD (e.g., 'P' for Peak, 'T' for Track, 'MEM' for Memory) and use the **SET** button or other designated buttons to switch between modes as per your testing requirements.



Image: The digital force gauge displaying different measurement modes on its LCD screen, illustrating its versatility for various testing requirements.

Maintenance

1. Cleaning

- Wipe the device with a soft, dry cloth. For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by a dry wipe.
- Do not use abrasive cleaners, solvents, or immerse the device in water.

2. Storage

- Store the force gauge in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity.
- If storing for an extended period, remove the batteries to prevent leakage and potential damage to the device.
- Keep all accessories organized and protected to prevent loss or damage.

3. Battery Replacement

- When the low battery indicator appears on the display, replace both AAA batteries promptly following the installation steps in the Setup section.

Troubleshooting

Device Not Powering On

- **Check Batteries:** Ensure batteries are correctly inserted with the right polarity. Replace with fresh AAA batteries if necessary.
- **Battery Compartment:** Verify the battery compartment cover is securely closed.

Inaccurate Readings

- **Zero Calibration:** Always perform a zero calibration before each measurement by pressing the**ZERO** button with no load.
- **Stable Surface:** Ensure the device and the object being measured are on a stable, level surface to prevent external influences.
- **Correct Attachment:** Verify that the correct measurement attachment is securely fastened for the task.
- **Overload:** Avoid exceeding the maximum capacity of the force gauge (500N) as this can damage the sensor and affect accuracy.

Display Issues

- **Flickering/Dim Display:** This often indicates low battery. Replace the batteries.
- **No Display:** Refer to "Device Not Powering On" steps.

Specifications

Feature	Specification
Model	500N Digital Force Gauge
Measurement Range	Up to 500 Newtons (N)
Units of Measurement	N, Kg, Lb, Oz
Display	Digital LCD with automatic backlight
Power Source	2 x AAA batteries (not included)
Features	High precision, high resolution, fast sampling, buzzer alarm, peak hold function
Manufacturer	YXJPP
ASIN	B0D9S5KH8R

Warranty and Support

Specific warranty information and detailed support contact details were not provided in the product description. For warranty claims or technical assistance, please refer to the documentation included with your purchase or contact the seller directly through the platform where the product was acquired.

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