

BUUBO AMF-50

BUUBO AMF-50 Digital Push-Pull Force Gauge User Manual

Model: AMF-50 Series

1. INTRODUCTION

The BUUBO AMF-50 Digital Push-Pull Force Gauge is a versatile, high-precision instrument designed for measuring push and pull forces. It is suitable for a wide range of applications in electronics, hardware, textiles, automotive, and research. This manual provides detailed instructions for safe and effective use of the device.

2. SAFETY INFORMATION

- Do not exceed the maximum load capacity of the device.
- Avoid exposing the device to corrosive environments or strong vibrations.
- Ensure proper battery installation and replacement.
- Keep the device away from water and extreme temperatures.
- Handle accessories carefully to prevent injury.

3. PACKAGE CONTENTS

Verify that all items are present in the package:



Image description: The image shows the BUUBO AMF-50 Digital Push-Pull Force Gauge, various measurement attachments (flat, cone, chisel, hook, extension rod), and two AAA batteries, all neatly organized within a protective carrying case.

- BUUBO AMF-50 Digital Push-Pull Force Gauge
- Various Measurement Attachments (Flat, Cone, Chisel, Hook, Extension Rod)
- 2 x AAA 1.5V Batteries (may be shipped separately for safety)
- Protective Carrying Case
- User Manual (this document)

4. PRODUCT OVERVIEW

The AMF-50 series features a clear digital display and intuitive controls for easy operation.



Image description: A close-up front view of the BUUBO AMF-50 Digital Push-Pull Force Gauge, showing its LCD screen displaying "6.5 N" and control buttons: SET, ZERO, UNIT, and PEAK, with a central power button. A threaded shaft for attachments is visible at the top.

4.1. Components

- **Measurement Head:** Threaded interface for attaching various probes.
- **Digital Display:** Shows force readings, units, battery status, and measurement mode.
- **Power Button (Red):** Turns the device on or off.
- **SET Button:** Used for calibration or advanced settings (refer to specific model documentation for details).
- **ZERO Button:** Resets the current reading to zero.
- **PEAK Button:** Toggles peak hold mode to capture the maximum force applied.
- **UNIT Button:** Cycles through available measurement units (N, kg, Lb, Oz).



Image description: The BUUBO AMF-50 Digital Push-Pull Force Gauge is shown held in a person's palm, illustrating its compact and portable design. The display shows a reading of "26.0 N".

5. SETUP

5.1. Battery Installation

The device requires two AAA 1.5V batteries.

1. Locate the battery compartment on the back of the device.
2. Open the battery compartment cover.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

5.2. Attaching Measurement Accessories

Select the appropriate measurement attachment for your application.



Image description: The BUUBO AMF-50 Digital Push-Pull Force Gauge is displayed alongside its five interchangeable measurement attachments: a flat head, a cone head, a chisel head, a hook, and an extension rod.

1. Screw the desired attachment onto the threaded shaft at the top of the force gauge until it is finger-tight.
2. Ensure the attachment is securely fastened before use.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off

Press and hold the red **Power** button to turn the device on or off.

6.2. Unit Selection

With the device powered on, press the **UNIT** button repeatedly to cycle through the available measurement units: Newtons (N), Kilograms (kg), Pounds (Lb), and Ounces (Oz).

6.3. Zeroing the Display

Before taking a measurement, ensure no force is applied to the sensor. Press the **ZERO** button to reset the display to 0.00. This compensates for any minor offsets.

6.4. Taking a Measurement

Apply the force to be measured to the attached probe. The current force will be displayed on the screen.

For push measurements, apply force directly onto the probe. For pull measurements, use the hook attachment.

6.5. Peak Hold Function

Press the **PEAK** button to activate peak hold mode. The display will show the maximum force recorded during the measurement cycle. Press **PEAK** again to exit this mode and return to real-time measurement.

7. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its protective carrying case in a dry, cool environment when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display.
- **Calibration:** Regular calibration by a qualified technician is recommended to maintain accuracy, especially for critical applications.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on	Dead or incorrectly installed batteries	Check battery polarity; replace batteries
Inaccurate readings	Device not zeroed; sensor overload; need for calibration	Press ZERO button; ensure force is within range; consider professional calibration
Display shows "OL"	Overload	Remove applied force immediately; ensure measurement is within device's maximum capacity

9. SPECIFICATIONS

Parameter	Value
Model	AMF-50 Series (e.g., 100N, 500N)
Maximum Load Capacity	Varies by model (e.g., 100N, 500N, 50kg, 110Lb)
Measurement Units	N, kg, Lb, Oz
Load Division Value	0.1N, 0.001Kg, 0.001Lb (for 500N model)
Sensor Structure	Inner sensor
Accuracy	±1%
Power Supply	2 x AAA 1.5V Batteries
Working Temperature	5°C to 35°C (41°F to 95°F)

Parameter	Value
Transport Temperature	-10°C to 60°C (14°F to 140°F)
Relative Humidity	15% to 80% RH
Dimensions	124 x 60 x 31 mm
Net Weight	Approximately 0.4 kg
Connectivity	No USB, No Output

**Note: Specific maximum load capacity and load division values may vary depending on the exact model purchased (e.g., 100N, 500N).*

10. WARRANTY AND SUPPORT

This product is covered by a standard manufacturer's warranty. Please refer to the warranty card included with your purchase or contact BUUBO customer support for details regarding warranty terms and service.

For technical assistance or inquiries, please contact your retailer or the manufacturer directly.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question