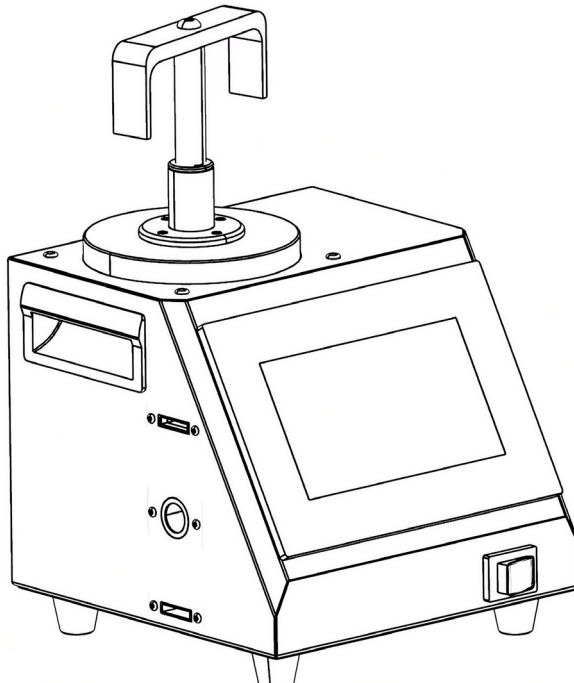




Portable Actuator Testing Equipment User Manual



**Thank you for choosing our product.
Please read this manual carefully before use.**

1 Packaging List



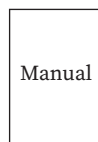
Testing Equipment



Power Adapter



Power cable



Manual

2 Equipment Functions

This equipment verifies whether the sensor output signals of pneumatic actuators meet the required accuracy and linearity.

It consists of a test bench, touchscreen, and power switch, and supports multiple signal types: square-connector PWM complementary, round-connector voltage complementary, and flat-connector PWM signals.

3 Technical Specifications

Table 1 Scope of Application

No.	OE No.	Vehicle Model	Connector Type
1	6482 000 155	Volvo	Round
2	6482 000 216	Vehicles with ZF transmission	Rectangular
3	6482 000 218	Mercedes-Benz / Freightliner	Square
4	6482 000 356	Sinotruk	Square
5	6482 000 357	Vehicles with Fast transmission	Swquare

Table 2 Specifications

Input Voltage	DC 24V
Operating Current	2.5A
Rated Power	30W
Maximum Power	60W
Equipment Dimensions	276 × 256 × 290 mm (L × W × H)

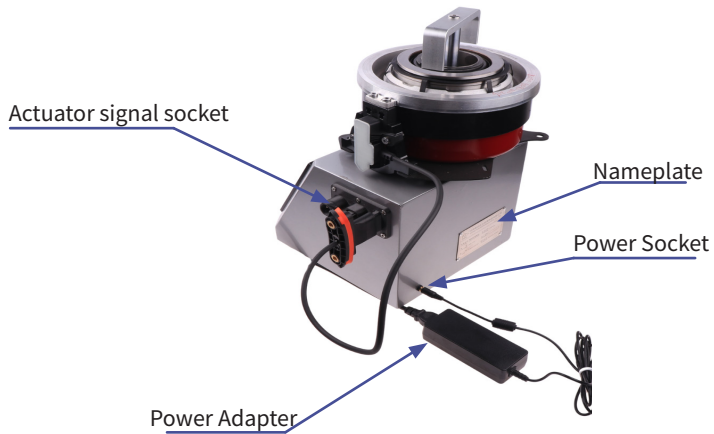


Figure 2 Structural Illustration (Side View)

4.2 Screen Pages

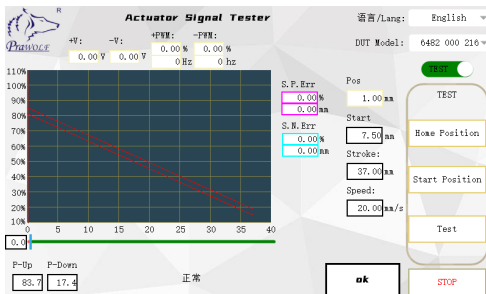


Figure 3 Testing Page

Table 3 Description of Test Page (Fig 3)

Display / Button	Function
Language	Supports: Chinese / English
DUT Model	Select actuator model: 6482 000 155 / 6482 000 216 / 6482 000 218 ...
+V	Positive signal voltage
-V	Negative signal voltage
+PWM	Positive signal PWM
-PWM	Negative signal PWM
Test (toggle)	Switch between Testing Page (Fig. 1) and Settings Page (Fig. 2)
S.P.Err	Maximum error and position across the full stroke of the positive signal
S.N.Err	Maximum error and position across the full stroke of the negative signal
Pos(Position)	Current Drawbar height
Start	Factory-preset test start position. If signals from multiple actuators are consistently offset, see Troubleshooting
Stroke	Actuator test stroke
Speed	Actuator test speed
Home Position	Move Drawbar to home (uppermost) position
Start Position	Return Drawbar to test start position
Test	Execute the test program
OK / NG	Green "OK" = pass; Red "NG" = fail
Stop	Stop the test
P-Up	Positive signal upper set point
P-Down	Positive signal lower set point

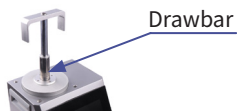


Figure 4 Drawbar Location

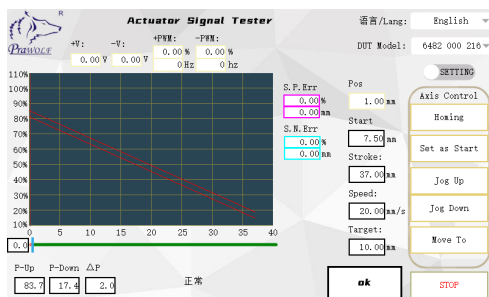


Figure 5 Setting Page

Table 4 Description of Test Page (Fig 5)

Display / Button	Function
Homing	Move Drawbar to home (uppermost) position
Set as Start	Set the current position as the test start point
Jog Up	Jog the Drawbar upward
Jog Down	Jog the Drawbar downward
Move To	Move Drawbar to the Target Position. Enter Target value first, then press "Move To".
Target	Target position (mm)
ΔP	Allowable positional tolerance

5 Operating Instructions

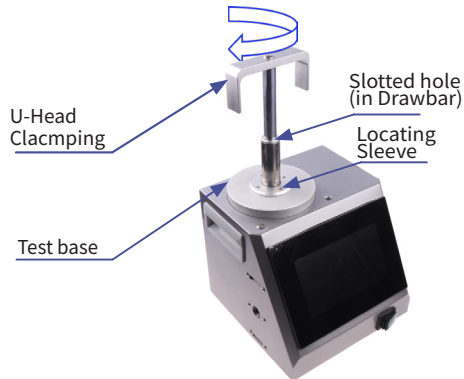


Figure 6 Operation Diagram

When first taken out of the packaging box, the Drawbar is fully retracted. Complete the setup below before testing.

Getting Started:

- Connect the power adapter and cable.
- Switch on the power switch.
- Select the display language and actuator model, then press Test — the Drawbar extends automatically to the test start position.

After Use:

- Remove the clamping arm and actuator.
- Switch to the Manual Settings page and hold Jog Down until the Drawbar reaches its lowest position.
- Power off, unplug the cable, and pack the equipment.

Test Procedure:

- Set up the equipment per Section 5.1.
- Select the actuator model on screen. Position the actuator on the test base at the Locating Sleeve.
- Connect the actuator cable to the corresponding signal socket.
- Remove the U-Head clamping arm from the Receptacle. Insert the U-Head into the slotted hole in the Drawbar, then rotate 90° clockwise to lock.
- Press “Test” and wait for the test cycle to finish.
- Read the test result (OK/NG).
- Remove the Clamping arm.

6 Safety and Precautions

- Verify power plug compatibility with local outlet standards before use. Do not use mismatched connections.
- Use only the supplied power cable and adapter. The supplied cable uses a GB 2099.1 three pin plug; use a suitable adapter for use outside China. Do not use unapproved replacement parts.
- Do not force the power cable or adapter during insertion or removal.
- Do not use near open flames or flammable or explosive atmospheres. This device is not explosion-proof.
- Do not use in extreme environments (high or low temperature, high humidity, heavy dust).
- Switch off power before unplugging the power cable after use.

7 Troubleshooting

No.	Fault Description	Solution
1	Signals from multiple consecutive actuators show good linearity but consistently fall outside the pass/fail limits.	The Drawbar test start position is offset. Adjust the “Start” parameter to bring the signals within the acceptable range.
2	U-Head retaining bolt is loose.	Tighten with the corresponding hex key.

8 Basic Maintenance

1. Switch off power and unplug the power cable before maintenance.
2. Wipe the test bench surface with a clean soft cloth before use to remove debris. If needed, use a soft cloth dampened with diluted mild detergent (do not allow liquid into the device). Allow to air-dry fully before use.
3. Do not wipe the screen with a dry cloth (scratch risk). Spray screen cleaner onto a clean cloth and wipe gently in one direction. Dry residual marks with a clean microfiber cloth.
4. Do not use corrosive liquids to clean the equipment or screen

9 Demo Video

Scan the QR code to watch the equipment operation demo



Alternatively, you may access the manual on our website:
<http://manual.pra-wolf.com/video>.