Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

GODIYMODULES YH-800

GODIYMODULES YH-800 Photoelectric Switch Tester Instruction Manual

Model: YH-800

1. Introduction

The GODIYMODULES YH-800 is a portable sensor tester designed for quick and confident verification of various DC sensors. It supports two-wire, three-wire, and four-wire sensors with PNP or NPN outputs. This device is capable of testing inductive (metal induction), capacitive, optoelectronic, magnetic, and ultrasonic sensors, helping users to diagnose sensor operation efficiently and avoid unnecessary replacements.

2. Safety Information

- Ensure the device is powered off before connecting or disconnecting sensors.
- Use only 6F22 9V batteries (not included) for power. Do not attempt to power the device with other voltage sources.
- Avoid exposing the tester to moisture, extreme temperatures, or corrosive environments.
- Do not attempt to disassemble or modify the device, as this may void the warranty and pose safety risks.
- Keep the device out of reach of children.

3. Product Overview

The YH-800 sensor tester features a compact design with clear indicators for sensor status and battery level. It includes terminals for connecting various sensor types.



Figure 1: Front view of the GODIYMODULES YH-800 Photoelectric Switch Tester, showing indicators and connection points.

Key Components:

- **Power Input Terminals:** Red (+) and Blue (-) for sensor power.
- **Sensor Input Terminal:** Black (signal) for connecting the sensor output.
- **Battery Low Indicator:** Red LED (labeled with battery icon) illuminates when battery voltage is low.
- **Switch Status Indicator:** Green LED (labeled with '%') illuminates when the sensor switch is connected/active.
- **PNP/NPN Indicators:** Yellow LEDs indicate the output type (PNP or NPN) of the connected sensor.

4. Setup

4.1 Battery Installation

1. Locate the battery compartment on the back of the YH-800 tester.
2. Open the battery compartment cover.
3. Insert two 6F22 9V batteries, ensuring correct polarity (+/-).

4. Close the battery compartment cover securely.
5. The device is now ready for use. If the red battery low indicator illuminates immediately, replace the batteries.

5. Operating Instructions

The YH-800 tester can be used to verify the functionality of various DC sensors. Ensure the sensor is disconnected from its original power source before testing.

5.1 Wiring Diagrams

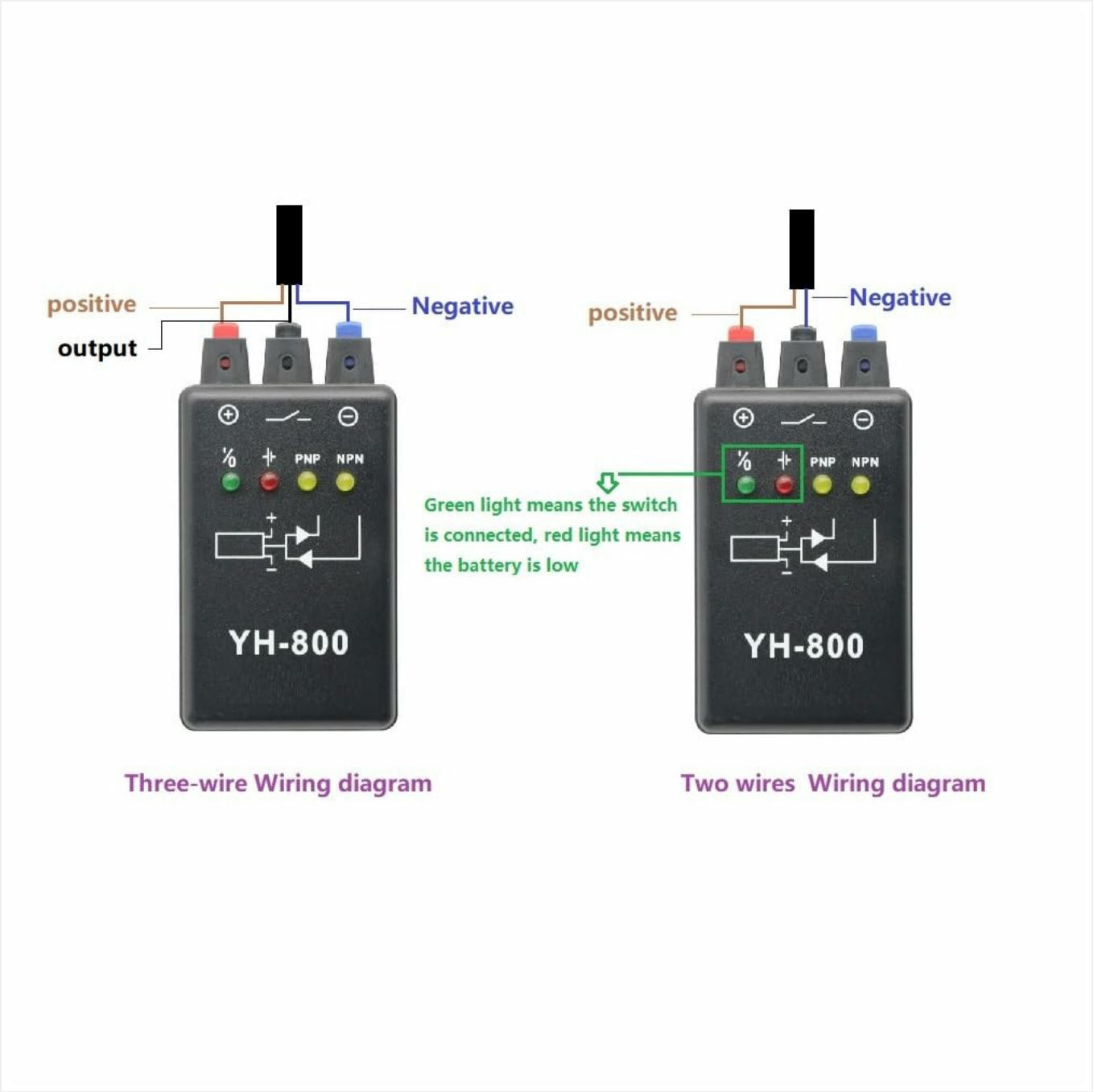

Figure 2: Wiring diagrams illustrating connections for two-wire and three-wire sensors to the YH-800 tester. The green light indicates switch connection, and the red light indicates low battery.

5.2 Testing Three-Wire Sensors (PNP/NPN)

1. Connect the sensor's positive power wire to the red (+) terminal on the YH-800.
2. Connect the sensor's negative power wire to the blue (-) terminal on the YH-800.

3. Connect the sensor's signal output wire to the black (signal) terminal on the YH-800.
4. Activate the sensor (e.g., by bringing a target object near a proximity sensor, or blocking a photoelectric sensor beam).
5. Observe the LEDs:
    - The green switch status LED should illuminate when the sensor is active.
    - One of the yellow LEDs (PNP or NPN) will illuminate, indicating the sensor's output type.
6. If the red battery low indicator illuminates, replace the batteries.

5.3 Testing Two-Wire Sensors

1. Connect one wire of the two-wire sensor to the red (+) terminal on the YH-800.
2. Connect the other wire of the two-wire sensor to the black (signal) terminal on the YH-800.
3. The blue (-) terminal is not used for two-wire sensors.
4. Activate the sensor.
5. Observe the green switch status LED. It should illuminate when the sensor is active.
6. Note: PNP/NPN indicators are typically not applicable for simple two-wire sensors as they usually act as a switch.

5.4 Testing Four-Wire Sensors

For four-wire sensors, typically two wires are for power (positive and negative) and two are for output (e.g., normally open and normally closed, or two signal lines for different functions). Connect the power wires as for a three-wire sensor, and then test each signal output wire separately by connecting it to the black (signal) terminal. Observe the green switch status LED and PNP/NPN indicators for each output.

6. Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator illuminates to ensure accurate testing and prevent potential damage from battery leakage.
- **Storage:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.

7. Troubleshooting

Problem	Possible Cause	Solution
Tester does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
Green switch status LED does not illuminate when sensor is active.	Incorrect wiring; faulty sensor; sensor not properly activated.	Verify wiring according to diagrams; ensure sensor is correctly activated; test with a known good sensor if available.
PNP/NPN LEDs do not illuminate.	Sensor is a two-wire type; incorrect wiring for three/four-wire sensor.	Confirm sensor type; verify wiring for three/four-wire sensors.
Red battery low indicator is on.	Low battery voltage.	Replace both 9V batteries.

8. Specifications

Model Number	YH-800
Compatible Sensor Types	Inductive, Capacitive, Optoelectronic, Magnetic, Ultrasonic Sensors
Sensor Output Types	PNP, NPN (2-wire, 3-wire, 4-wire DC sensors)
Power Source	2 x 6F22 9V Batteries (Not Included)
Minimum Operating Voltage	9V DC
Dimensions (L x W x H)	114 x 64 x 27 mm (4.49 x 2.52 x 1.06 inches)
Item Weight	0.06 kg (0.13 lbs)
Color	Black

9. Warranty and Support

For warranty information or technical support, please refer to the retailer or manufacturer's official website where the product was purchased. Keep your purchase receipt as proof of purchase.
Manufacturer: GODIYMODULES

© 2025 GODIYMODULES. All rights reserved.

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

Open the live page

https://manuals.plus/asin/B0D9F2WKHY

More documents and user manuals: **https://manuals.plus/**