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SHZICMY YDL-983A

SHZICMY YDL-983A Automatic Glue Dispenser 220V User Manual

Model: **YDL-983A** | Brand: **SHZICMY**

1. Introduction

The SHZICMY YDL-983A is a professional automatic glue dispenser designed for precise and consistent application of various liquid and paste materials. It features a digital control system for accurate timing and offers multiple dispensing modes to suit diverse industrial requirements. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your YDL-983A dispenser.



Figure 1: Overview of the YDL-983A Automatic Glue Dispenser setup.

2. Safety Information

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the device is connected to a 220V ± 10% 60Hz power supply. Do not operate with wet hands or in damp environments. Disconnect power before performing any maintenance or cleaning.
- **Air Pressure Safety:** The input air pressure should be within 10-100 psi and output air pressure within 1-80 psi. Always use clean, dry compressed air. Do not exceed recommended pressure limits to prevent damage to the unit or connected components.
- **Material Handling:** Always wear appropriate personal protective equipment (PPE) such as gloves and eye protection when handling dispensing materials. Refer to the Material Safety Data Sheet (MSDS) for the specific material being dispensed.
- **Ventilation:** Operate the dispenser in a well-ventilated area, especially when dispensing materials with strong fumes.

- **Children and Unauthorized Personnel:** Keep the device out of reach of children and ensure only trained personnel operate the equipment.

3. Product Features

The YDL-983A Automatic Glue Dispenser incorporates several features designed for precision and ease of use:

- User-friendly function, facilitating easier operation for coating, line dispensing, and dropping, enhancing product quality and production efficiency.
- Professional precision glue dispenser utilizing the latest digital control system, ensuring consistent timed output.
- Designed for long-term use across various applications, with an expected lifespan exceeding 10 years.
- Equipped with a high-quality magnetic valve and high-performance transformer, ensuring stable performance and precise material withdrawal.
- Features 16 freely adjustable modes, allowing manual time setting and supporting both continuous pedal and one-touch pedal operation.



Figure 2: The YDL-983A offers 16 dispensing modes and dual-mode operation.

4. Technical Specifications

Parameter	Value
Output Type	16 freely adjustable types with time display
Automatic Output Time	00.01S - 99.99S
Manual Timer	Continuous coating/lineation output
Minimum Flow Rate	0.0001 ml
Dispensing Interval Time	0.1 - 9.9 S (Automatic Timer Function)
Input Voltage	220V ± 10% 60Hz
Internal Voltage	12V DC / 24V DC
Input Air Pressure	10-100 psi
Output Air Pressure	1-80 psi
Overall Dimensions	235 x 225 x 63 mm (9.25 x 8.86 x 2.48 inches)
Net Weight	2.2 kg
Material	Epoxy Resin (housing)
Model Number	YDL-983A
UPC / GTIN	794304891692



Figure 3: High-precision air pressure gauge for safe operation.



Figure 4: Dimensions of the YDL-983A unit.

5. Setup

Follow these steps to set up your YDL-983A Automatic Glue Dispenser:

1. **Placement:** Place the dispenser unit on a stable, level surface in a well-ventilated area.
2. **Connect Air Pressure:** Connect a clean, high-pressure air source to the **Air Pressure Input Interface** (10) on the rear of the unit. Ensure the air pressure regulator is set to the desired input pressure (10-100 psi).
3. **Connect Dispensing Cylinder:** Attach the dispensing cylinder (containing the material to be dispensed) to the **Output Interface** (9) on the front panel.
4. **Connect Foot Controller:** Plug the foot switch into the **Foot Controller Interface** (12) on the rear of the unit.
5. **Connect Power:** Plug the power cord into the **Power Socket** (13) on the rear of the unit, and then into a 220V ± 10% 60Hz electrical outlet.
6. **Check Fuse:** Ensure the fuse is correctly installed in the **Fuse Holder** (14).



Figure 5: Rear panel connections for power, air, and foot switch.

6. Operating Instructions

Familiarize yourself with the control panel components and follow these steps for operation:



Figure 6: Front panel controls including dispensing time and interval settings.

1. **On/Off Switch (1):** Toggle this switch to turn the unit ON or OFF. The indicator light illuminates when ON.
2. **Output Time Display (2):** This digital display shows the currently set dispensing time.
3. **Input Air Pressure Regulator (3):** Pull out to adjust. Turning clockwise increases pressure, counter-clockwise decreases pressure.
4. **Barometer (4):** Displays the current air pressure in the range of 0-100 psi.
5. **Vacuum Control Unit (5):** Adjust this knob to control the vacuum return. Turning clockwise increases vacuum, counter-clockwise decreases.
6. **Test Button (6):** Press this button to perform a test dispense. It can be used as an alternative to the foot pedal for testing.
7. **Dispensing Time Selection Button (7):** Use this button to adjust the dispensing time from 00.01S to 99.99S. Supports both increment and decrement.
8. **Interval Time Setting Button (8):** Use this button to adjust the interval time for automatic dispensing from 0.1S to 9.9S. Supports both increment and decrement.
9. **Output Interface (9):** Connection point for the dispensing cylinder.

10. **Air Pressure Input Interface (10):** Connection point for the external air pressure source.
11. **Mode (11):** The unit offers 16 different dispensing modes. Select the appropriate mode for your application.
12. **Foot Controller Interface (12):** Connection point for the foot switch.
13. **Power Socket (13):** Connection point for the power cord.
14. **Fuse Holder (14):** Contains the protective fuse for the unit.

Dispensing Operation:

- **Manual Mode:** Press and hold the foot pedal (or Test Button) for continuous dispensing. Release to stop.
- **Timed Mode:** Set the desired dispensing time using the Dispensing Time Selection Button (7). Press the foot pedal (or Test Button) once for a single, timed dispense.
- **Automatic Interval Mode:** Set both the dispensing time (7) and the interval time (8). The unit will dispense for the set time, pause for the set interval, and repeat.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your dispenser:

- **Cleaning:** Regularly clean the exterior of the unit with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners. Ensure dispensing needles and cylinders are cleaned according to material manufacturer guidelines.
- **Air System Check:** Periodically check air lines for leaks or blockages. Ensure the air source provides clean, dry air to prevent contamination of internal components.
- **Fuse Replacement:** If the unit does not power on, check the fuse in the Fuse Holder (14). Replace with a fuse of the same type and rating if blown. Always disconnect power before replacing the fuse.
- **Storage:** When not in use for extended periods, store the dispenser in a clean, dry environment away from direct sunlight and extreme temperatures.

8. Troubleshooting

If you encounter issues with your YDL-983A dispenser, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	No power supply, blown fuse, faulty power cord.	Check power connection. Replace fuse if blown. Test power cord.
No material dispensed	No air pressure, clogged needle/cylinder, incorrect settings, empty cylinder.	Check air supply and pressure. Clear any blockages. Verify dispensing time and mode settings. Refill cylinder.
Inconsistent dispensing volume	Fluctuating air pressure, material viscosity issues, worn needle/seal.	Ensure stable air pressure. Adjust dispensing time/pressure for material. Replace worn components.
Air leaks	Loose connections, damaged air lines.	Check all air line connections. Replace damaged tubing.

If the problem persists after attempting these solutions, please contact customer support.

9. Applications

The SHZICMY YDL-983A Automatic Glue Dispenser is versatile and suitable for dispensing various pastes and liquids with fluidity. Its precision makes it ideal for a wide range of industries and applications, including:

- Electronics manufacturing (e.g., circuit board assembly, component bonding)
- Aviation and aerospace (e.g., sealing, bonding components)
- Optics (e.g., lens assembly, optical component bonding)
- Chemical processing
- Automotive industry (e.g., gasket application, component assembly)
- Medical treatment devices
- Oil and gas industry
- Packaging
- Jewelry manufacturing
- General mechanical industries



Figure 7: Examples of materials suitable for the YDL-983A dispenser, including epoxy adhesive, silicone, ink, chemical reagent, and tin paste.



Figure 8: Wide range of applications for the YDL-983A across electronics, aviation, optics, and chemistry.

10. Warranty and Support

Information regarding specific warranty terms and customer support contact details for the SHZICMY YDL-983A Automatic Glue Dispenser is not available in the provided product data. Please refer to your purchase documentation or contact the seller directly for warranty claims and technical assistance.

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