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YUYTE Four Port Switch

YUYTE Air Compressor Pressure Switch Instruction Manual

Model: Four Port Switch

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your YUYTE Air Compressor Pressure Switch. Please read this manual thoroughly before use and retain it for future reference. The YUYTE Air Compressor Pressure Switch is designed to regulate the pressure within an air compressor system. It features a durable construction and a user-friendly design for reliable performance.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always disconnect power to the air compressor before installing, servicing, or performing any maintenance on the pressure switch.
- Ensure all connections are secure and properly sealed to prevent air leaks.
- Verify that the electrical ratings of the switch (voltage, current) match your air compressor system requirements.
- Do not exceed the specified pressure range (90-120 PSI) for this switch.
- Installation should be performed by a qualified individual if you are unsure about electrical or pneumatic connections.
- Wear appropriate personal protective equipment (PPE) such as safety glasses when working with air compressors.

3. Product Overview

The YUYTE Air Compressor Pressure Switch is a critical component for controlling the operation of your air compressor. It automatically turns the compressor on and off to maintain a desired pressure range.

Key Features:

- Integrated red ON/OFF knob for manual control.
- Four female air inlet ports for versatile connection options.
- Durable construction with stainless steel and aluminum contact materials.
- Designed for 240V, 16A electrical systems.

- Pressure range: 90-120 PSI.

Component Identification:



Figure 3.1: YUYTE Air Compressor Pressure Switch. This image shows the main unit with its black housing, metal base, and red ON/OFF knob on the side.



Figure 3.2: Various views of the pressure switch. This composite image displays the external housing, the internal spring mechanism, and the four female air inlet ports on the metal base.

4. Setup and Installation

Follow these steps for proper installation of the pressure switch:

1. **Power Disconnection:** Ensure the air compressor is completely disconnected from its power source before beginning installation.
2. **Mounting:** Securely mount the pressure switch in a suitable location on your air compressor. The switch is designed for manual operation.
3. **Pneumatic Connections:** Connect the air lines to the four female air inlet ports. The thread size for these connections is 12MM. Use appropriate thread sealant (e.g., PTFE tape) to ensure airtight connections and prevent leaks.
4. **Electrical Connections:** Connect the electrical wiring from your air compressor to the pressure switch terminals. This switch is rated for 240V and 16A. Ensure all electrical connections are tight and insulated according to local electrical codes.

5. **Initial Check:** After installation, double-check all connections (pneumatic and electrical) for security and proper sealing.

5. Operating Instructions

The YUYTE Air Compressor Pressure Switch is designed for straightforward operation.

1. **Power On:** Once installed and all connections are verified, reconnect power to the air compressor.
2. **Manual Control:** The switch features a red ON/OFF knob. To turn the compressor ON, rotate the knob to the 'ON' position. To turn the compressor OFF, rotate the knob to the 'OFF' position.



Figure 5.1: Close-up of the red ON/OFF knob. This image highlights the knob with 'ON' and 'OFF' indicators for manual control of the compressor.

3. **Automatic Pressure Regulation:** When the compressor is turned ON via the knob, the pressure switch will automatically monitor the air pressure. It will activate the compressor when the pressure drops below approximately 90 PSI and deactivate it when the pressure reaches approximately 120 PSI.
4. **Monitoring:** Periodically monitor the air pressure gauge on your compressor to ensure the switch is operating within the specified pressure range.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your pressure switch.

- **Inspection:** Periodically inspect the pressure switch for any signs of wear, damage, or corrosion. Check all electrical and pneumatic connections for tightness.
- **Cleaning:** Keep the exterior of the switch clean and free from dust, dirt, and debris. Use a dry cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Leak Check:** Regularly check for air leaks around the pneumatic connections. Leaks can reduce compressor efficiency and put undue stress on the switch.
- **Internal Components:** The internal components are not user-serviceable. If the switch malfunctions, replacement is recommended.

7. Troubleshooting

If you encounter issues with your pressure switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Compressor does not turn on.	No power to the switch. Switch knob in 'OFF' position. Faulty electrical connection.	Check power supply. Rotate knob to 'ON'. Inspect and secure electrical wiring.
Compressor does not turn off.	Pressure not reaching cut-off point. Faulty pressure switch.	Check for air leaks in the system. Replace the pressure switch.
Air leaks around the switch.	Loose pneumatic connections. Damaged threads or seals.	Tighten connections. Apply new thread sealant. Inspect threads; replace switch if damaged.
Inconsistent pressure regulation.	Internal switch malfunction. System air leaks.	Replace the pressure switch. Check and seal all air connections.

If the problem persists after attempting these solutions, contact a qualified technician or the manufacturer for assistance.

8. Specifications

Detailed technical specifications for the YUYTE Air Compressor Pressure Switch:

Specification	Value
Model	Four Port Switch
Type	Air Pressure Control Switch
Operating Voltage	240V
Current Rating	16A
Pressure Range	90-120 PSI
Thread Size	12MM

Specification	Value
Connector Type	Four Female Air Inlet Ports
Operation Mode	Manual
Contact Type	Normally Open
Contact Material	Stainless Steel, Aluminum
Approximate Dimensions	13 x 8 x 5 cm (5.1 x 3.1 x 1.9 inches)



Figure 8.1: Dimensions of the YUYTE Air Compressor Pressure Switch. This image illustrates the approximate measurements of the unit: 13cm (5.1in) length, 8cm (3.1in) width, and 5cm (1.9in) height.

9. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or contact

the manufacturer directly. Keep your proof of purchase for warranty claims.
Manufacturer: YUYTE
For further assistance, you may visit the YUYTE Store on Amazon.

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