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TOP-MAX FB10-4H

TOP-MAX FB10-4H 4-Way Air Compressor Pressure Switch User Manual

Model: FB10-4H | Part Number: FWL-FE-260313R3

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your TOP-MAX FB10-4H 4-Way Air Compressor Pressure Switch. This device is designed to automatically regulate the pressure in your air compressor system, ensuring efficient and safe operation. Please read this manual thoroughly before installation and use.

2. Safety Information

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

- Always disconnect power to the air compressor before installing, servicing, or performing any maintenance on the pressure switch.
- Ensure the air compressor system is fully depressurized before working on any pneumatic components.
- Installation and wiring should only be performed by a qualified electrician or technician in accordance with all local and national electrical codes.
- Verify that the voltage and current ratings of the pressure switch match your air compressor's requirements (up to 240VAC).
- Do not operate the switch if it is damaged or appears to be malfunctioning.
- Keep hands and tools clear of moving parts and pressurized air during operation.

3. Product Features

- **Robust Electrical Performance:** Engineered for high current loads up to 240VAC, preventing motor burnout.
- **Precise Automatic Control:** Available in three pressure range specifications: 95-125 PSI, 110-150 PSI, and 135-175 PSI.
- **Enhanced Insulation Safety:** Constructed from engineering plastic to protect internal circuits and minimize shock hazards.
- **Versatile 4-Port Manifold:** Horizontal layout with a visible red lever for intuitive operation, accommodating various air compressor tools.

- **Integrated Unloader Valve:** Facilitates easier compressor restarts by releasing head pressure.

4. Package Contents

- 1 x TOP-MAX FB10-4H 4-Port Pressure Switch with Unloader

5. Specifications

Parameter	Value
Model	FB10-4H
Material	Engineering Plastic, Metal
Dimensions (L x W x H)	6 cm x 6 cm x 9.65 cm (approximately 2.36 in x 2.36 in x 3.80 in)
Available Pressure Ranges	95-125 PSI, 110-150 PSI, 135-175 PSI
Port Configuration	4-Port Manifold with Unloader
Voltage Capacity	Up to 240VAC
Color	Black Housing, Red Lever



Image 1: Product dimensions showing height of 9.65cm/3.80in and width/depth of 6cm/2.36in. The unloader port has an inner diameter of 6mm/0.23in.

6. Setup and Installation

Before you begin: Ensure the air compressor is unplugged from its power source and the air tank is completely depressurized. Wear appropriate personal protective equipment (PPE).

1. **Remove Old Switch (if applicable):** Carefully disconnect all electrical wiring and air lines from the existing pressure switch. Note the connections for reassembly.
2. **Mounting the New Switch:** Securely mount the TOP-MAX FB10-4H pressure switch to the compressor's manifold or mounting bracket. Ensure it is stable and free from vibration.
3. **Connecting Air Lines:** Connect the main air tank line to the appropriate port on the 4-port manifold. Connect any auxiliary lines, gauges, or safety valves to the remaining 1/4G ports as required by your compressor system. The unloader valve typically connects to the compressor pump's discharge line.



Image 2: Bottom view of the pressure switch manifold, indicating four 1/4G threaded ports for air connections and a central port for the main air line.

4. **Electrical Wiring:** Connect the compressor motor's power wires to the appropriate terminals inside the pressure switch housing. Ensure all connections are tight and secure. Refer to your compressor's wiring diagram for specific connections. The switch is rated for up to 240VAC.
5. **Final Check:** Double-check all electrical and pneumatic connections for tightness and proper routing. Ensure no wires are pinched or exposed.

7. Operation

The TOP-MAX FB10-4H pressure switch features a red lever for controlling the compressor's operation.



Image 3: Top view of the pressure switch showing the red lever, which acts as the main control for the unit.

- **OFF Position:** Moving the red lever to the 'OFF' position (usually down or to one side) will cut power to the compressor motor, preventing it from running.
- **AUTO Position:** Moving the red lever to the 'AUTO' position (usually up or to the other side) enables automatic operation. The compressor will start when the tank pressure drops below the lower set point (e.g., 135 PSI for a 135-175 PSI switch) and stop when it reaches the upper set point (e.g., 175 PSI).

Initial Startup:

1. With the red lever in the 'OFF' position, plug in the air compressor.
2. Slowly move the red lever to the 'AUTO' position. The compressor should start running.
3. Monitor the pressure gauge as the tank fills. The compressor should stop automatically when the upper pressure limit is reached.
4. Open an air tool or drain valve to release some air. The compressor should restart automatically when the pressure drops to the lower limit.

5. Check for any air leaks around the fittings.

8. Maintenance

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

- **Inspect Connections:** Periodically check all electrical connections for tightness and signs of corrosion. Ensure air fittings are secure and free of leaks.
- **Clean Exterior:** Keep the exterior of the switch clean and free from dust, oil, and debris. Use a dry cloth; do not use solvents or abrasive cleaners.
- **Check for Damage:** Inspect the housing for any cracks or physical damage. If damage is found, replace the switch immediately.
- **Unloader Valve:** Ensure the unloader valve operates freely. A sticking unloader can cause hard starts for the compressor motor.

WARNING: Always disconnect power and depressurize the system before performing any maintenance.

9. Troubleshooting

Problem	Possible Cause	Solution
Compressor does not start	No power; Red lever in 'OFF' position; Faulty wiring; Motor overload.	Check power supply; Move lever to 'AUTO'; Inspect wiring; Reset motor overload.
Compressor does not stop	Pressure switch malfunction; Air leak in system; Pressure gauge faulty.	Replace switch; Check for and repair air leaks; Verify gauge accuracy.
Compressor cycles too frequently	Air leak in system; Tank check valve faulty; Pressure switch set points too close.	Repair air leaks; Inspect/replace check valve; (Note: Pressure ranges are fixed for this model).
Compressor struggles to start	Faulty unloader valve; Low voltage; Motor issue.	Inspect/clean unloader valve; Check power supply; Consult compressor manual.

10. Warranty and Support

This TOP-MAX FB10-4H Air Compressor Pressure Switch comes with a standard**1-year manufacturer warranty** covering defects in materials and workmanship from the date of purchase.
If you encounter any issues or have questions regarding your product, please contact the seller or TOP-MAX customer support through the platform where you purchased the item. Please have your purchase details and model information ready.

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