

FANTECH DB 10

Fantech DB 10 Pressure Switch Kit User Manual

MODEL: DB 10

Brand: FANTECH

1. INTRODUCTION

The Fantech DB 10 Pressure Switch Kit is a pressure-activated control device designed to automate the operation of various systems, such as dryer booster fans or ventilation systems. It features an integral delay function, ensuring stable and reliable performance by preventing rapid cycling. This manual provides essential information for the safe and effective installation, operation, and maintenance of your DB 10 Pressure Switch Kit.

2. SAFETY INFORMATION

WARNING: Installation and servicing of this product should only be performed by qualified personnel. Disconnect power before installing or servicing the unit to prevent electric shock or equipment damage. All wiring must comply with local and national electrical codes.

- Always wear appropriate personal protective equipment (PPE) during installation.
- Ensure the power supply matches the voltage requirements of the switch (115-120 Volts).
- Do not exceed the specified current rating of the switch.
- Keep all electrical connections dry and secure.

3. WHAT'S IN THE BOX

The Fantech DB 10 Pressure Switch Kit includes the following components:

- 1 x DB 10 Pressure Switch with Integral Delay
- 1 x Section of NPT Tubing (approximately 3 feet)
- 1 x Grommet for Tubing
- 4 x Wire Nuts for Electrical Connection
- 1 x Packet with Switch Mounting Hardware (screws and wall anchors)



An image showing the Fantech DB 10 Pressure Switch, including the main switch unit, electrical wires, clear tubing, wire nuts, and mounting screws with wall anchors.

4. INSTALLATION

Follow these steps for proper installation of the DB 10 Pressure Switch:

1. **Choose Mounting Location:** Select a location for the pressure switch that is easily accessible and close to the ductwork or system it will monitor. The switch should be mounted vertically with the pressure port facing upwards or horizontally.
2. **Mount the Switch:** Use the provided mounting hardware to securely attach the pressure switch to a stable surface.
3. **Prepare Duct Connection:** Drill a small hole (typically 1/4 inch) into the ductwork where pressure changes are most significant. For applications like dryer booster fans, it is often recommended to drill the hole just before an elbow or a backdraft damper to ensure sufficient pressure buildup for reliable activation.
4. **Connect Tubing:** Insert one end of the NPT tubing into the pressure port on the switch. Secure the other end of the tubing into the drilled hole in the ductwork using the provided grommet to create an airtight seal. Ensure the tubing is not kinked or obstructed.
5. **Electrical Wiring:** The DB 10 switch is designed for 115-120 Volt AC supply. It features a Normally Closed (NC) contact type. Connect the electrical wires using the provided wire nuts according to the wiring diagram specific to your application. Ensure all connections are tight and insulated. Consult a qualified electrician if you are unsure about the wiring process.
6. **Verify Connections:** Double-check all mechanical and electrical connections before restoring power.

5. OPERATION

The Fantech DB 10 Pressure Switch operates automatically based on pressure differentials. When the system it monitors (e.g., a dryer or ventilation fan) begins operation, it creates a pressure change within the ductwork. Once this pressure change reaches the switch's activation threshold, the switch will close its contacts, thereby activating the connected device (e.g., a booster fan). The integral delay function ensures that the switch does not react to momentary pressure fluctuations, providing stable and consistent operation. When the system stops, the pressure drops, and after a short delay, the switch will open its contacts, deactivating the connected device.

6. MAINTENANCE

The DB 10 Pressure Switch is designed for minimal maintenance. However, periodic checks can ensure its longevity and reliable performance:

- **Inspect Tubing:** Periodically check the NPT tubing for any kinks, cracks, or blockages that could affect pressure sensing. Ensure it remains securely connected to both the switch and the duct.
- **Check Electrical Connections:** Ensure all wire nuts and electrical connections remain tight and free from corrosion.
- **Clean Exterior:** Keep the exterior of the switch clean and free from dust or debris. Do not use harsh chemicals.
- **Verify Operation:** Occasionally verify that the switch activates and deactivates as expected with the operation of the connected system.

7. TROUBLESHOOTING

If you encounter issues with your DB 10 Pressure Switch, consider the following:

- **Device Not Activating:**
 - Ensure the power supply to the switch is active.
 - Check the NPT tubing for blockages, kinks, or leaks.
 - Verify that sufficient pressure is being generated in the ductwork. The pressure sensing hole should ideally be located where pressure builds up, such as before an elbow or damper.
 - Inspect electrical connections for looseness or damage.
- **Device Not Deactivating:**
 - Ensure the pressure in the ductwork has returned to normal (i.e., the system it monitors is off).
 - Check the NPT tubing for any persistent blockages or foreign objects that might be maintaining pressure.
 - If the issue persists, the switch itself may be faulty and require replacement.
- **Intermittent Operation:**
 - Check for loose electrical connections.
 - Ensure the pressure signal is consistent and not fluctuating rapidly.

For issues not resolved by these steps, contact Fantech customer support.

8. SPECIFICATIONS



Feature	Specification
Model Number	DB 10
Brand	FANTECH





Feature	Specification
Operating Voltage	120 Volts
Current Rating	11 Amps
Operation Mode	Automatic
Contact Type	Normally Closed
Circuit Type	2-way
Connector Type	Clamp
Terminal Type	Screw
Contact Material	Metal
Product Dimensions (L x W x H)	8.3 x 6.5 x 5.9 inches
Item Weight	1.15 Pounds

9. WARRANTY AND SUPPORT

Fantech products are manufactured to high standards and are typically covered by a manufacturer's warranty. Please refer to the warranty documentation included with your purchase or visit the official Fantech website for detailed warranty terms and conditions. For technical support, replacement parts, or further assistance, please contact Fantech customer service directly through their official website or contact information provided with your product. You can visit the Fantech store for more information: [FANTECH Store on Amazon](#)

Related Documents - DB 10

	<p>Fantech DEDPV-705 Dryer Exhaust Duct Power Ventilator Installation and Operation Manual</p> <p>This manual provides comprehensive instructions for the installation and operation of the Fantech DEDPV-705 Dryer Exhaust Duct Power Ventilator. It includes essential safety information, step-by-step installation guides, sequence of operation, maintenance recommendations, troubleshooting tips, and warranty details.</p>
	<p>Fantech Product Catalog: Comprehensive Ventilation Solutions</p> <p>Discover Fantech's extensive product catalog featuring a wide range of ventilation solutions including inline fans, radon mitigation systems, bath fans, dryer exhaust fans, fresh air appliances, filtration systems, and kitchen ventilation. Enhance indoor air quality with Fantech's innovative and reliable products.</p>

 <p>The image shows the cover of the FANTECH PAC4 Portable Cooler Quick Start Guide. It features the FANTECH logo at the top left, a large image of the white portable cooler in the center, and the text 'QUICK START GUIDE' below it. At the bottom, there is a 'PAC4' logo and a small 'What's in the box' section with icons.</p>	<p>FANTECH PAC4 Portable Cooler Quick Start Guide - Features and Usage</p> <p>Comprehensive quick start guide for the FANTECH PAC4 Portable Cooler. Learn about its technical specifications, product features, how to operate, and charge the device efficiently.</p>
 <p>The image shows the cover of the Fantech HERO HS300 Whole House Filtration Unit Installation and Operation Manual. It features the title 'Installation and Operation Manual' at the top, the product name 'HERO HS300' below it, and a large image of the white filtration unit. The Fantech logo is at the bottom right.</p>	<p>Fantech HERO HS300 Whole House Filtration Unit Installation and Operation Manual</p> <p>This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Fantech HERO HS300 Whole House Filtration Unit. It includes product specifications, parts lists, warranty details, and safety guidelines for optimal performance and longevity.</p>
 <p>The image shows the cover of the Fantech Booster K513 RGB Gaming Keyboard User Manual. It features the title 'User Manual' at the top, the product name 'BOOSTER K513' below it, and a large image of the black gaming keyboard. The Fantech logo is at the bottom left.</p>	<p>Fantech Booster K513 RGB Gaming Keyboard User Manual</p> <p>Comprehensive user manual for the Fantech Booster K513 RGB Gaming Keyboard, detailing technical specifications, RGB lighting modes, multimedia functions, software customization, macro editing, and connection instructions.</p>
 <p>The image shows the cover of the Fantech EOS PRO WGP15 Wireless Game Controller User Manual. It features a grid of images showing the controller from various angles and the Fantech logo at the bottom left.</p>	<p>Fantech EOS PRO WGP15 Wireless Game Controller User Manual</p> <p>Comprehensive user manual for the Fantech EOS PRO WGP15 wireless game controller, detailing its features, specifications, connectivity options for PC, Android, iOS, and consoles, button assignments, and troubleshooting tips.</p>