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Karcher 6.997-357.0

Karcher Electronic Pressure Switch 6.997-357.0 User Manual

Model: 6.997-357.0

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Karcher Electronic Pressure Switch 6.997-357.0. This device is designed to automatically control the operation of a pump, providing dry-run protection to prevent damage.

The electronic pressure switch automatically switches the pump on and off based on water demand, making it ideal for converting a standard garden pump into an electronic booster pump. Its integrated dry-run protection feature safeguards the pump by automatically shutting it off if no water is detected on the suction side.

SAFETY INSTRUCTIONS

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

- **Electrical Safety:** Always disconnect power before performing any installation, maintenance, or repair work. Ensure all electrical connections are made by a qualified electrician and comply with local regulations.
- **Water Pressure:** Ensure the system's water pressure does not exceed the maximum operating pressure of the device or connected pump.
- **Installation Environment:** Install the device in a location protected from freezing temperatures, direct sunlight, and excessive moisture.
- **Intended Use:** Use this device only for its intended purpose as an electronic pressure switch with dry-run protection for pumps. Do not modify the device.
- **Children and Unauthorized Personnel:** Keep children and unauthorized personnel away from the device during operation.

PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- Karcher Electronic Pressure Switch with Dry Run Protection (Model 6.997-357.0)
- User Manual (this document)

SETUP AND INSTALLATION

Proper installation is crucial for the correct function and longevity of the electronic pressure switch.

1. Mounting the Device

The pressure switch should be installed vertically, with the water inlet at the bottom and the outlet at the top, to ensure proper air bleeding and sensor function. Securely mount the device to a stable surface using appropriate fasteners (not included).

2. Water Connections

Connect the pump's discharge outlet to the inlet of the pressure switch. Connect the water supply line to the outlet of the pressure switch. Ensure all connections are watertight using thread sealant tape or appropriate gaskets. Avoid overtightening connections.

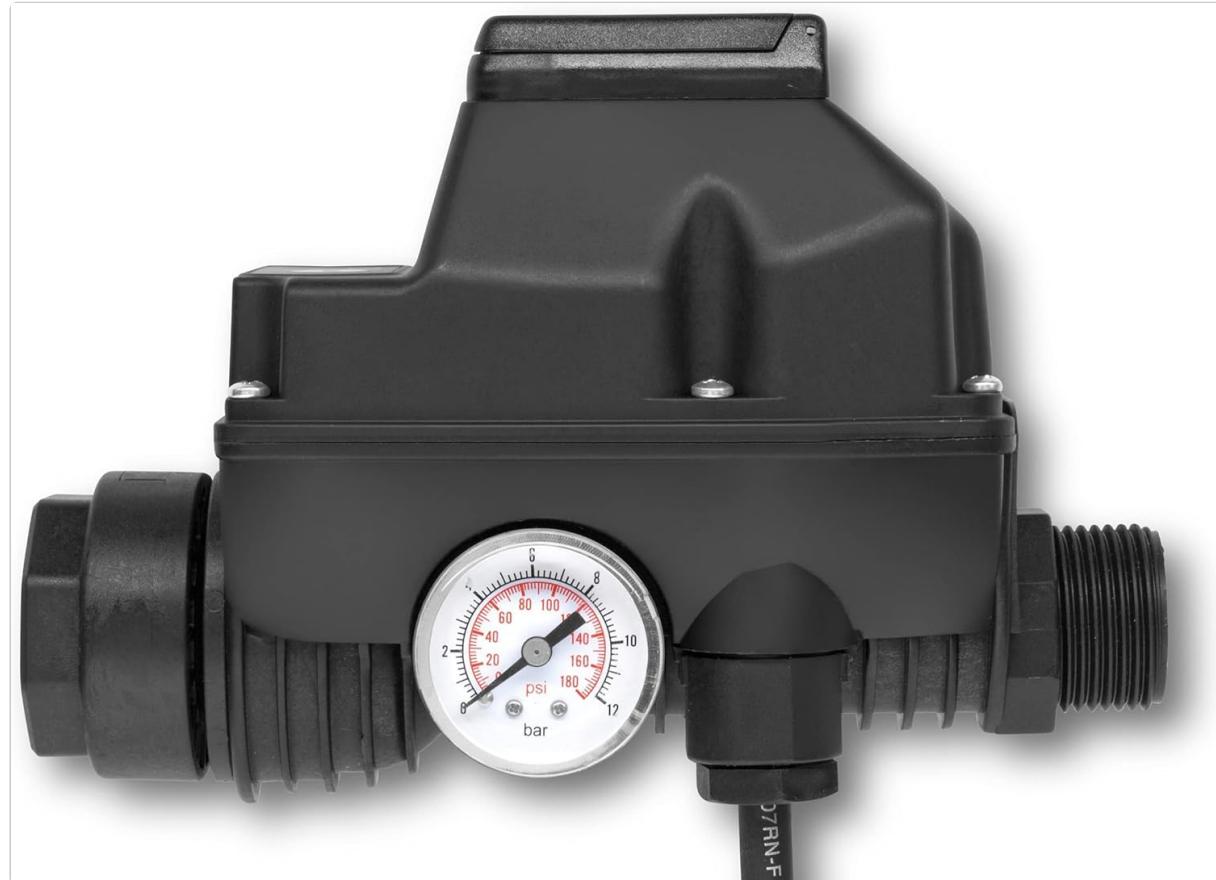


Image 1: Side view of the Karcher Electronic Pressure Switch, showing the pressure gauge and threaded inlet/outlet connections. The gauge displays pressure in bar and psi.

3. Electrical Connections

Connect the power supply to the pressure switch and the pressure switch to the pump's power input. Refer to the wiring diagram provided with your pump and the pressure switch for specific connections. Ensure all electrical connections are secure and protected from moisture.

Important: This device operates on 12 Volts (DC). Verify compatibility with your pump and power supply before connecting.

OPERATING INSTRUCTIONS

The Karcher Electronic Pressure Switch is designed for automatic operation.

Automatic Operation

Once installed and powered, the device will automatically switch the connected pump on when water demand is detected (e.g., opening a tap) and switch it off when water flow stops. The integrated pressure gauge provides a

visual indication of the system pressure.

Dry-Run Protection

If the pump runs without water on the suction side, the dry-run protection feature will automatically shut off the pump to prevent damage. This is indicated by a specific light on the control panel.



Image 2: Front view of the Karcher Electronic Pressure Switch, showing the power indicator, fault indicator, and the 'RESET' button.

Resetting the Device

If the dry-run protection activates, the pump will stop, and a fault indicator light will illuminate. To reset the device and restart the pump, ensure there is water available on the suction side, then press the **RESET** button located on the front panel (refer to Image 2).

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your pressure switch.

- **Cleaning:** Periodically clean the exterior of the device with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connection Checks:** Regularly inspect all water and electrical connections for leaks or corrosion. Tighten

connections as necessary.

- **Winterization:** In areas prone to freezing temperatures, disconnect and drain the device and connected pump to prevent damage from ice expansion. Store in a dry, frost-free location.

TROUBLESHOOTING

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Pump does not start.	No power supply. Dry-run protection activated. Pump malfunction.	Check power connection. Ensure water supply, then press RESET . Inspect pump for issues.
Pump runs continuously.	Leak in the system. Constant water demand.	Check all connections and pipes for leaks. Ensure all taps are closed.
Dry-run protection activates frequently.	Insufficient water supply. Air in the suction line.	Verify water source and supply. Bleed air from the pump and suction line.
Water leaks from connections.	Loose connections. Damaged seals/thread tape.	Tighten connections. Apply new thread sealant tape or replace gaskets.

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

SPECIFICATIONS

Brand	Kärcher
Model Number	6.997-357.0
Voltage	12 Volts (DC)
Item Weight	0.96 Kilograms (2.11 pounds)
Material	One or more values from [Metal, Steel, Rubber, Ethylene Propylene Diene Monomer, Acrylonitrile Butadiene Styrene, Brass, Iron, Plastic, Copper, Bronze, Polyvinyl Chloride, Polyoxymethylene]
Product Dimensions	53.15" L x 39.37" W x 74.8" H (Note: These dimensions appear to be for a larger product, possibly a pressure washer, not the switch itself. Please refer to product packaging for accurate switch dimensions.)
Included Components	Kärcher Electronic pressure switch with dry run protection
GTIN	04039784223240

Note: Specifications are subject to change without notice.

WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact Karcher customer service. Refer to your product packaging or the official Karcher website for the most up-to-date contact details and warranty terms applicable to your region.

Online Resources: www.karcher.com

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