

# Operation Manual

## SKD-1 – Pressure Switch

50610, 51264



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.

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Even though, the WilTec Wildanger Technik GmbH has undergone biggest possible efforts to ensure that the operating manual is complete, faultless and up to date, mistakes cannot be entirely avoided.

If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

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## Introduction

Thank you for purchasing this quality product. **To minimize the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

## Safety Instructions

### **CAUTION:**

This device is not intended for use by persons (including children) with limited physical, sensory or mental abilities or with a lack of experience and/or knowledge, unless they are supervised or instructed how to use this device by a person responsible for their safety. Children should be supervised to ensure that they do not play with the device. Cleaning and user maintenance must not be carried out by children.

### **ATTENTION:**

- Perform a visual inspection of the device before each use. Do not use the device if safety devices are damaged or worn. Never disable safety devices.
- Only use the device for the purpose specified in these instructions for use.
- You are responsible for safety in the work area.
- If the cable or plug is damaged due to external influences, the cable must not be repaired! The cable must be replaced with a new one. This work may only be carried out by a qualified electrician.
- The voltage of 230 V AC specified on the type plate of the device must correspond to the existing mains voltage.
- Never lift, transport or attach the device to the power cord.
- Make sure that the electrical plug connections are located in a flood-proof area or are protected from moisture.
- Disconnect the mains plug before carrying out any work on the appliance.
- The operator is responsible for compliance with local safety and installation regulations. Ask a qualified electrician if necessary.
- If the device should fail, repair work may only be carried out by a qualified electrician.

### **WARNING:**

**Read all safety instructions and instructions.** Failure to follow the safety precautions and instructions may result in electric shock, fire and/or serious injury.

Keep all safety instructions and instructions for the future.

## Stability

The temperature of the pumped liquid should not exceed +35°C in continuous operation.

No flammable, gas forming or explosive liquids may be pumped with this pump. This pump must not be used for other liquids, in particular motor fuels, cleaning agents and other chemical products!

## Electrical connection

The electrical connection is made at a 230 V ~ 50 Hz socket outlet with grounding contact. Fuse protection at least 10 A.

## Technical Data – Specifications:

Input Voltage	220–250 V / 50 Hz / max. 10 A
Max. pressure	10 bar
Max. temperature	60°C
Connections	32.89 mm–33.25 mm external threads
Protection class	IP 65

### Functional description of the general operating mode of the pump control

The pump control consists of a pressure switch and a water flow switch. The switching cycles are then determined from the two switching states of the pressure switch and the water flow switch.

Water pressure switch actuated + water flow switch not actuated = normal switch-off  
(delay of approx. 3–8 sec. until switch-off)

Water pressure switch not actuated + water flow switch actuated = pump on

Water pressure switch not actuated + water flow switch not actuated = switch-off due to dry running  
and indication of fault (delay 8–15 seconds)

### Common causes of errors

1. First problem case:

The pump control switches off and displays failure/error even though water was pumped successfully before. After a reset, this error will reoccur immediately or after a short time.

Possible causes:

- A: The water pressure of the pump used is not sufficient to operate the water pressure switch. (Causes can be a blockage, a worn pump body or a pump that is too weak).
- B: The water pressure switch in the pump control is blocked. (Cleaning with clean water can solve the problem or the housing of the pressure switch in the pump control must be cleaned. Sand and other sediments may have deposited here.)

2. Second problem case:

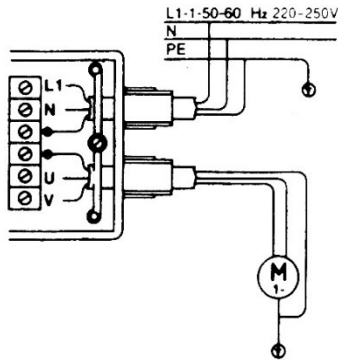
The pump control leaves the pump permanently switched on regardless of whether the tap is open or closed.

Possible causes:

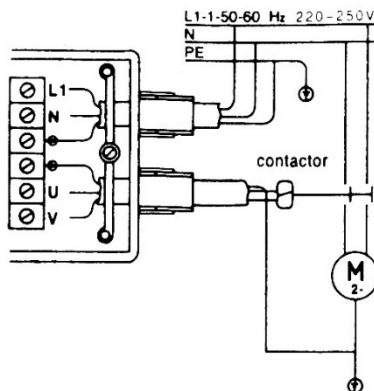
- A: The installation position of the pump control was not taken into account. This does not reset the water flow switch and it is permanently actuated. (Check installation position and correct if necessary).
- B: The water flow switch at the pump control input is permanently actuated. This can be caused by contamination, calcification or a foreign body. (An optical check confirms this problem and can be corrected by cleaning.)



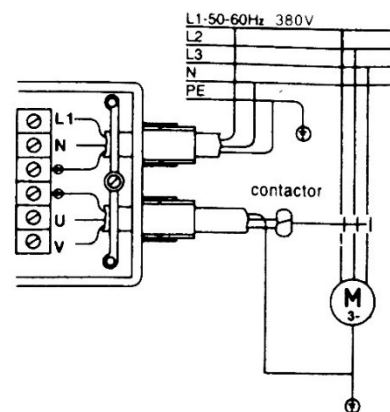
## Wiring diagram for connecting various pump motors to the automatic machines



Wiring diagram for single-phase 220 V pumps up to 1.1 kW



Wiring diagram for single-phase 220 V pumps over 1.1 kW; control via 2-phase relay (contactor), relay selection according to pump performance



Wiring diagram for three-phase 400 V pumps, also over 1.1 kW; control via 3-phase relay (contactor), selection of relay according to pump capacity

## Possible errors and their elimination

Error	Error at the machine	Error outside the machine
Pump does not start.	<ul style="list-style-type: none"> <li>Board is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>Missing voltage</li> <li>Pump defective</li> <li>Interchanged cables</li> </ul>
Pump does not stop.	<ul style="list-style-type: none"> <li>Board is damaged.</li> <li>Flow detector is stuck in the upper position.</li> <li>Reset button is blocked.</li> <li>Pump does not have sufficient pressure.</li> </ul>	Leak with more than 0.6 l/min loss.
Pump operates intermittently.	<ul style="list-style-type: none"> <li>Board is damaged.</li> <li>Pump does not have sufficient pressure.</li> </ul>	There is a leak with less than 0.6 l/min loss.

## Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WilTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Materials' recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities or the store where you purchased the article.

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