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› AMUR INVERTER 7 2.2KW Pump Controller Instruction Manual (Model 7-PSM01155VK)

AMUR 7-PSM01155VK

AMUR INVERTER 7 2.2KW Pump Controller Instruction Manual

Model: 7-PSM01155VK

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your AMUR INVERTER 7 2.2KW Pump Controller. This variable frequency controller is designed for 230-volt single-phase pumps, optimizing their performance by adapting to current demand through real-time monitoring. It is suitable for centrifugal and well pumps up to a maximum rated power of 2.2KW. The device ensures constant water pressure, minimizes noise, prevents pressure surges, and significantly extends pump service life through energy-efficient operation.

2. SAFETY INFORMATION

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

- Ensure the power supply is disconnected before any installation, maintenance, or repair work.
- Installation and electrical connections must be performed by qualified personnel in accordance with local regulations.
- The device is designed for 230V single-phase pumps. Do not connect to other voltage systems.
- Protect the device from direct sunlight, rain, and extreme temperatures.
- Ensure proper grounding of the pump and controller.
- An expansion tank with a minimum volume of 2 liters must be installed in the pressure line near the control for correct operation.

3. PRODUCT OVERVIEW

The AMUR INVERTER 7 2.2KW Pump Controller is a compact unit designed for intelligent pump management. It features a robust, air-cooled plastic housing with waterproof-sealed electronics for enhanced protection against condensation.

3.1 Components and Dimensions



Figure 1: Overall view of the AMUR INVERTER 7 2.2KW Pump Controller showing approximate dimensions and cable connections. The unit measures approximately 15.4 cm (height) x 18.6 cm (width) x 11.6 cm (depth). It includes pre-wired power cable (approx. 1.5m), pump cable (approx. 0.5m), and pressure sensor cable (approx. 2m).

3.2 Control Panel

The control panel provides visual indicators and buttons for operation and monitoring.



Figure 2: Detailed view of the control panel. It features LED indicators for POWER, PUMP, GROUP, ERROR, and SET. Two digital displays show pressure readings in bar. Control buttons include RUN, STOP, and up/down arrows for setting parameters.

- **LED Indicators:** POWER, PUMP, GROUP, ERROR, SET.
- **Digital Displays:** Show current pressure and set pressure in bar.
- **Buttons:** RUN (start pump), STOP (stop pump), Up/Down arrows (adjust settings).

4. TECHNICAL SPECIFICATIONS

Parameter	Value
Model Number	7-PSM01155VK
Input Voltage	230V AC
Output Voltage	230V AC

Parameter	Value
Max. Rated Current	11.5A
Connection Power	2.2KW
Max. Operating Pressure	10 bar
Max. Working Pressure Range	1 - 9 bar
Max. Water Temperature	40°C
Design	Air-cooled
Pressure Sensor	1-10bar, 24V, 4-20mA (cable approx. 2m)
Dimensions (H x W x D)	15.4 x 18.6 x 11.6 cm
Protection Class	IP44
Power Cable Length	Approx. 1.5m
Pump Cable Length	Approx. 0.5m

5. INSTALLATION

Proper installation is crucial for the safe and effective operation of the pump controller. Refer to the diagram below for mounting dimensions.

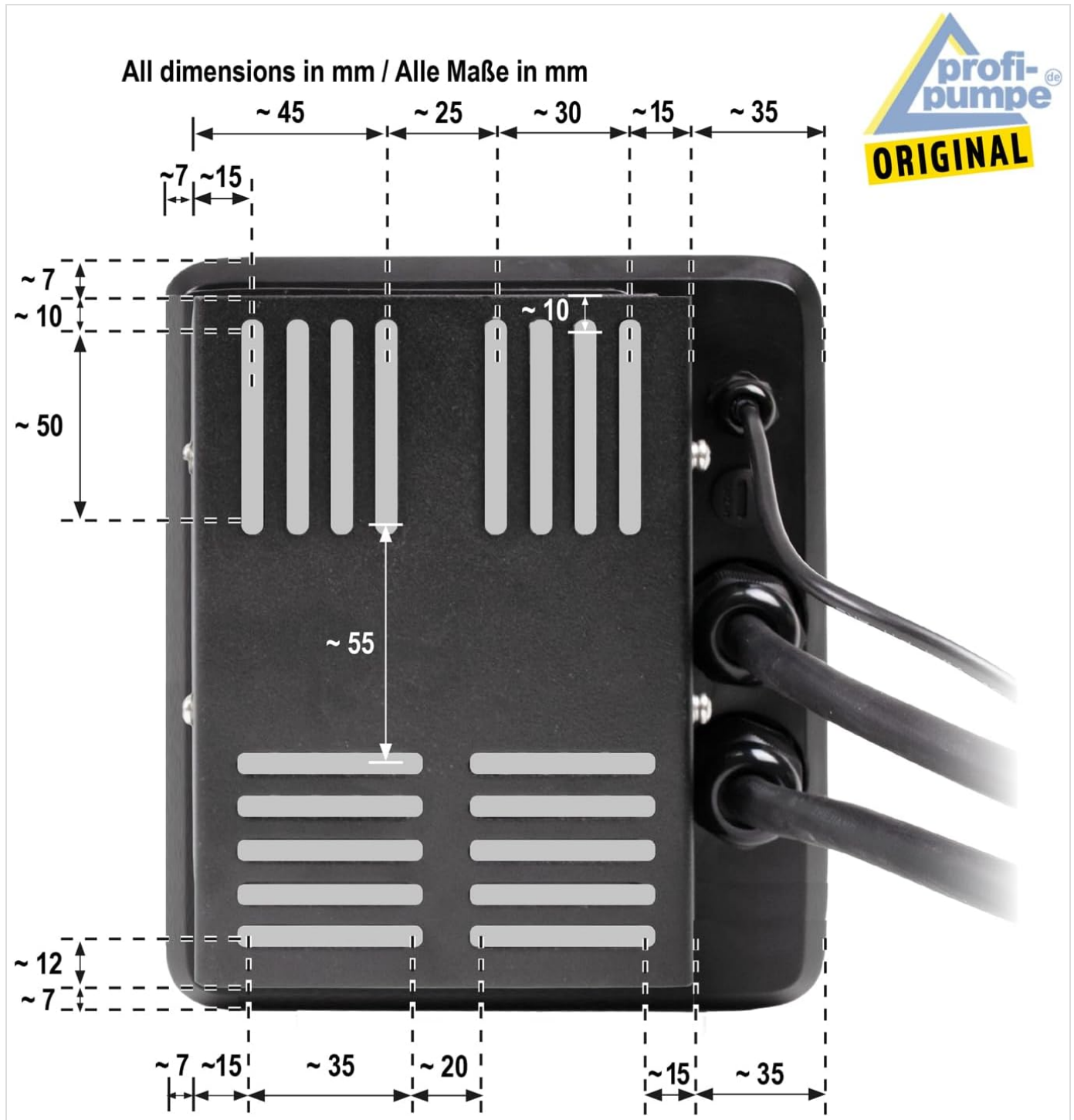


Figure 3: Bottom view of the controller showing mounting hole positions and dimensions in millimeters for secure installation.

5.1 Mounting the Controller

1. Choose a suitable location for the controller, protected from direct weather exposure and within reach of power and pump connections.
2. Use the dimensions provided in Figure 3 to mark and drill mounting holes.
3. Securely fasten the controller to a stable surface using appropriate screws and anchors.

5.2 Electrical Connections

1. Ensure the main power supply is OFF.
2. Connect the pre-wired power cable of the controller to a suitable 230V AC power outlet.
3. Connect the pre-wired pump cable from the controller to your 230V single-phase pump.
4. Connect the pressure sensor cable to the designated port on the controller and install the sensor in the water pipe.
5. **Important:** For optimal pressure sensor installation, a 5-way adapter with an integrated non-return valve and a high-quality

oil-filled stainless steel pressure gauge is recommended.

5.3 System Integration

- **Expansion Tank:** An expansion tank with a minimum volume of 2 liters (e.g., ASIN: B07KPK3VQG) **must** be installed in the pressure line in the immediate vicinity of the controller for correct operation. This prevents rapid cycling and ensures stable pressure.
- Ensure all connections are tight and secure to prevent leaks.
- The controller is suitable for all 230-volt centrifugal and well pumps with a pressure accumulation greater than 3 bar.

6. OPERATION

Once installed, the AMUR INVERTER 7 2.2KW Pump Controller operates automatically to maintain constant water pressure.

6.1 Initial Startup

1. Turn on the main power supply to the controller. The POWER LED should illuminate.
2. The digital displays will show the current pressure.
3. Press the **RUN** button to start the pump. The PUMP LED will illuminate.
4. The controller will automatically adjust the pump speed to reach and maintain the set pressure.

6.2 Setting Pressure

1. Press the **SET** button (if available, or refer to specific model instructions for setting mode).
2. Use the **Up** and **Down** arrow buttons to adjust the desired working pressure (within 1-9 bar range).
3. Confirm the setting (usually by pressing SET again or waiting for a timeout).

6.3 Automatic Operation

The controller continuously monitors the system pressure. When water is drawn, the pressure drops, and the controller increases pump speed. When water demand decreases, the pump speed is reduced. This ensures constant pressure and energy efficiency.

- The pump only consumes the energy necessary to maintain the set pressure.
- Integrated monitoring functions include system leak control, dry run protection, overvoltage and undervoltage protection, and maximum current limitation.

6.4 Stopping the Pump

Press the **STOP** button to manually stop the pump. The PUMP LED will turn off.

7. MAINTENANCE

The AMUR INVERTER 7 2.2KW Pump Controller is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity.

- **Cleaning:** Periodically wipe the exterior of the controller with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Connections:** Annually inspect all electrical and plumbing connections for tightness and signs of wear or corrosion.
- **Environment:** Ensure the installation area remains dry and free from excessive dust or debris.
- **Pressure Sensor:** Check the pressure sensor for any blockages or damage.

8. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Pump does not start	No power; ERROR LED illuminated; Dry run protection activated.	Check power supply; Refer to ERROR codes (if available on device); Ensure water supply to pump.
Inconsistent water pressure	Incorrect pressure setting; Air in system; Faulty pressure sensor; Insufficient expansion tank volume.	Adjust pressure setting; Bleed air from system; Check sensor connection/function; Verify expansion tank is correctly installed and sized (min. 2 liters).
ERROR LED is on	Overvoltage/Undervoltage; Overcurrent; Dry run; System leak.	Check power supply voltage; Inspect pump for blockages/overload; Check water supply; Inspect plumbing for leaks. Reset controller after resolving issue.
Pump cycles on/off frequently	Small leak in system; Expansion tank too small or faulty.	Check for and repair any leaks; Ensure expansion tank is installed and functioning correctly with a minimum volume of 2 liters.

9. PACKAGE CONTENTS

The following items are included in your package:

- 1 x AMUR INVERTER 7 2.2KW Pump Control Unit (pre-wired with approx. 1.5m power cable and approx. 0.5m pump cable)
- 1 x Instruction Manual

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the purchase documentation or contact your retailer. Keep your proof of purchase for any warranty claims.

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