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› LOKLNEYK SR258 Solar Controller for Split Pressurized Solar Water Heating System (3KW WIFI)

LOKLNEYK SR258

LOKLNEYK SR258 Solar Controller Instruction Manual

Model: SR258 (3KW WIFI)

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the LOKLNEYK SR258 Solar Controller. The SR258 is designed for split pressurized solar water heating systems and offers optional Wi-Fi remote control capabilities. Please read this manual thoroughly before installation and operation to ensure safe and efficient use of the product.

2. PRODUCT OVERVIEW

The SR258 solar controller is an advanced unit for managing solar water heating systems. It features precise temperature measurement and supports various configurations for optimal performance.

Key Features:

- Compatible with multiple water heater types for flexible use.
- Simple installation with universal interface and multiple safety protections.
- Fully automatic water supply with automatic shut-off when the tank is full to prevent overflow.
- Intelligent adjustment of heating strategy.
- Optional Wi-Fi remote control via application.

Components:



Image: LOKLNEYK SR258 Solar Controller unit, power cable, two sensor cables, and mounting screws/anchors.

The image above displays the SR258 controller unit, which features a digital display and six push-buttons for operation. Accompanying the controller are the necessary accessories for installation and function, including a power cable with a European plug, two coiled sensor cables for temperature monitoring, and a small bag containing mounting screws and wall anchors. An instruction manual is also visible, indicating the product's model number.

3. SETUP AND INSTALLATION

The SR258 controller is designed for wall mounting. Ensure the installation location is dry, protected from direct sunlight, and within the specified ambient temperature range of -10°C to 50°C.

Installation Steps:

1. **Mounting:** Securely mount the controller to a wall using the provided screws and anchors.

2. **Sensor Connection:** Connect the Pt1000 sensor (silicone cable, up to 280°C) to the collector. Connect the NTC10K B3950 sensors (PVC cable, up to 105°C) to the storage tank(s). The controller supports 1 collector sensor and up to 4 tank sensors.
3. **Pump and Auxiliary Heating Connection:** Connect up to 3 pumps and 1 auxiliary heater (up to 1500W) to the designated output terminals. Ensure correct wiring for circulation pumps and auxiliary heating elements.
4. **Flowmeter Connection:** Connect the FRT electronic rotary vane flowmeter if applicable.
5. **Power Supply:** Connect the controller to an AC100-240V 50-60Hz power source. Ensure the power is off during wiring.
6. **Wi-Fi Module (Optional):** If using the Wi-Fi option, follow the specific instructions provided with the Wi-Fi module for connection and app setup.

Note: All electrical connections should be performed by a qualified professional to ensure safety and compliance with local regulations.

4. OPERATING INSTRUCTIONS

The SR258 controller is operated via six push-buttons located on the front cover. The display provides real-time system status and allows for parameter adjustments.

Main Functions:

- **DATE:** Set the current date and time.
- **Programmed Heating:** Configure schedules for auxiliary heating.
- **Circle:** Manage hot water circulation settings.
- **LOADING:** Configure tank loading parameters.
- **COL:** Monitor and adjust collector settings.
- **PUMP:** Select pump control modes.
- **COOL:** Activate cooling function (if applicable).
- **AUX:** Control auxiliary functions.
- **MAN:** Manual operation mode.
- **BLPR (Blocking Protection):** Function to prevent system blocking.
- **OTDI (Thermal Disinfection):** Function for thermal disinfection.
- **FS (Flowmeter Selection):** Select the type of flowmeter used.
- **UNIT:** Switch between unit displays (e.g., °C/°F).
- **CF RST (Factory Settings):** Reset parameters to factory defaults.
- **PASS:** Set or change the password.
- **Holiday Function:** Configure settings for periods of absence.
- **Screen Protection:** Adjust display settings.
- **Problem Protection:** System protection against issues.
- **Problem Checking:** Diagnostic function to identify system problems.

Refer to the detailed on-screen menu for specific parameter adjustments and settings for each function.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your SR258 controller and solar water heating system.

- **Cleaning:** Keep the controller's exterior clean and free from dust. Use a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion.
- **Sensor Integrity:** Check sensor cables for any signs of damage or wear. Damaged sensors can lead to inaccurate readings.
- **System Monitoring:** Regularly check the controller's display for any error messages or unusual readings. Utilize the "Problem Checking" function for diagnostics.

6. TROUBLESHOOTING

If you encounter issues with your SR258 controller, refer to the following basic troubleshooting steps:

- **No Power:** Check the power supply connection and ensure the circuit breaker is not tripped. Verify the power cable is securely plugged in.
- **Incorrect Temperature Readings:** Inspect the sensor connections. Ensure sensors are correctly placed and not damaged.
- **Pump Not Operating:** Check pump wiring and power supply. Verify pump control settings in the controller. Use the "Problem Checking" function.
- **Auxiliary Heater Not Working:** Check heater wiring and power. Verify auxiliary heating schedules and settings.
- **System Malfunction:** If the controller displays an error code, consult the full product manual (if available) for specific code interpretations. Consider performing a "CF RST" (Factory Settings Reset) if other troubleshooting steps fail, but note this will erase custom settings.

For persistent issues, contact qualified technical support.

7. SPECIFICATIONS

Parameter	Value
Controller Dimensions	187 mm x 128 mm x 46 mm
Power Supply	AC100-240V 50-60Hz
Power Consumption	< 2.5 W
Housing Material	ABS Plastic

Parameter	Value
Ingress Protection (IP) Rating	IP41
Mounting	Wall Fixing
Operation	6 Push-buttons on front cover
Temperature Measurement Precision	$\pm 0.1\text{ }^{\circ}\text{C}$
Sensor Temperature Range (Collector)	-10 $^{\circ}\text{C}$ to 220 $^{\circ}\text{C}$ (Pt1000 sensor, silicone cable 280 $^{\circ}\text{C}$)
Sensor Temperature Range (Tank)	0 $^{\circ}\text{C}$ to 110 $^{\circ}\text{C}$ (NTC10K B3950 sensor, PVC cable 105 $^{\circ}\text{C}$)
Max. Number of Collectors	1
Max. Number of Storage Tanks	1
Max. Number of Relays	5
Max. Number of Sensors	4
Suitable Pump Power	Up to 3 pumps can be connected
Suitable Auxiliary Heating (HK) Power	1 pc, 1500W
Inputs	5 sensors (1x Pt1000, 4x NTC10K B3950), 1x FRT Flowmeter
Outputs	4 relays (2x electromagnetic max. 1A, 1x solid-state max. 1A, 1x electromagnetic max. 10A), 1x PWM variable frequency output (switchable 0-10V)
Ambient Temperature	-10 $^{\circ}\text{C}$ ~ 50 $^{\circ}\text{C}$
Certification	CE

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