

Luqeeq Luqeeqby17dmgfte

Luqeeq Liquid Level Probe Sensor for GRL8 Relay

Model: Luqeeqby17dmgfte

1. INTRODUCTION

The Luqeeq Liquid Level Probe Sensor is designed for reliable and accurate liquid level detection when used in conjunction with a GRL8 liquid level relay. This manual provides essential information for the safe and effective installation, operation, and maintenance of your probe sensors. Please read this manual thoroughly before use.



Image 1.1: Close-up of a single Luqeeq liquid level probe sensor. This image shows the metallic tip of the probe, which is the sensing element, protected by a durable yellow plastic casing. The design ensures robust performance in liquid environments.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- Ensure the power supply to the GRL8 relay and associated equipment is disconnected before installation or maintenance.
- Do not modify the probes or their wiring.
- Use the probes only with compatible GRL8 liquid level relays.
- Avoid exposing the probes to extreme temperatures or corrosive liquids not specified for their use.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package:

- 1 x Blue Liquid Level Probe Sensor (approx. 1.5 meters / 4.9 feet)
- 1 x Red Liquid Level Probe Sensor (approx. 3 meters / 9.8 feet)

- 1 x White Liquid Level Probe Sensor (approx. 3.5 meters / 11.5 feet)



Image 3.1: The three liquid level probe sensors included in the package. This image displays the blue, red, and white probes, each with its yellow protective tip, indicating the different lengths provided for varied applications.

4. SPECIFICATIONS

Feature	Specification
Manufacturer	Luqeeq
Model Number	Luqeeqby17dmgfte
Compatibility	GRL8 Liquid Level Relay
Probe Lengths	Blue: Approx. 1.5 meters (4.9 feet) Red: Approx. 3 meters (9.8 feet) White: Approx. 3.5 meters (11.5 feet)
Package Dimensions	17 x 16 x 2 cm
Package Weight	102 g

Feature	Specification
Batteries Required	No

Blue: Approx. 1.5meter / 4.9ft
Red: Approx. 3meter / 9.8ft
White: Approx. 3.5meter / 11.5ft

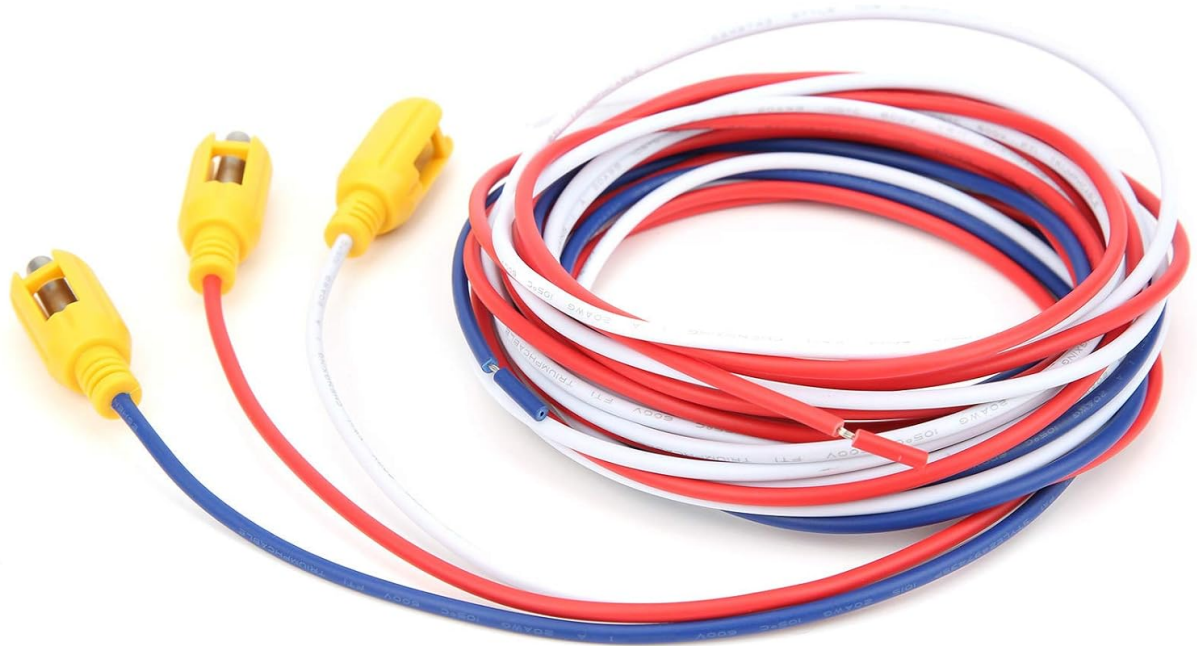


Image 4.1: Visual representation of probe lengths. This image clearly labels each probe by color (blue, red, white) and its corresponding length in both meters and feet, aiding in identification and selection for specific applications.

5. SETUP

The Luqeeq Liquid Level Probe Sensors are designed to be connected to a GRL8 liquid level relay (sold separately). Follow these general steps for installation:

- 1. Prepare the GRL8 Relay:** Ensure the GRL8 relay is properly mounted and its power supply is disconnected. Refer to the GRL8 relay's instruction manual for specific wiring diagrams and safety guidelines.
- 2. Identify Probe Lengths:** Select the appropriate probe lengths (1.5m, 3m, 3.5m) based on your desired liquid level detection points (e.g., minimum, maximum, common).
- 3. Connect Probes to Relay:** Connect the bare wire ends of the probe sensors to the corresponding terminals on the GRL8 liquid level relay. Typically, one probe acts as a common reference, and the others detect specific high or low levels. Ensure secure and correct wiring according to the GRL8 manual.

4. **Position Probes:** Carefully lower the probe sensors into the liquid tank or container. Position them at the exact levels where you need to detect the liquid. Ensure the metallic tips are fully submerged when the liquid reaches the desired detection point.
5. **Secure Wiring:** Route and secure the probe wires to prevent damage or accidental disconnection.
6. **Power On:** Once all connections are secure and verified, reconnect the power supply to the GRL8 relay.



Image 5.1: The three liquid level probes with their coiled wires. This image illustrates the probes in their complete form, showing the length of the wires and the yellow protective tips, ready for connection to a GRL8 relay.

6. OPERATING INSTRUCTIONS

Once properly installed and connected to a GRL8 liquid level relay, the probe sensors operate automatically:

- The GRL8 relay continuously monitors the electrical conductivity between the common probe and the level detection probes.
- When the liquid level reaches a specific probe, an electrical circuit is completed through the liquid, signaling the GRL8 relay.
- The GRL8 relay then activates or deactivates connected devices (e.g., pumps, alarms) based on its programmed settings.

- Refer to your GRL8 liquid level relay's manual for detailed information on programming and configuring its response to liquid level changes.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your liquid level probe sensors:

- **Inspection:** Periodically inspect the probes and their wiring for any signs of damage, corrosion, or wear.
- **Cleaning:** If the probes are used in liquids that may leave residue, gently clean the metallic tips with a soft cloth and appropriate cleaning solution (compatible with the liquid and probe materials) to ensure proper conductivity. Disconnect power before cleaning.
- **Re-calibration:** If you suspect inaccurate readings, check the probe positioning and consult the GRL8 relay manual for any calibration procedures.
- **Storage:** If removing probes for extended periods, clean them thoroughly and store them in a dry, cool place away from direct sunlight.

8. TROUBLESHOOTING

If you encounter issues with your liquid level probe sensors, consider the following:

- **No Detection / Inaccurate Readings:**
 - Check all wiring connections to the GRL8 relay for security and correctness.
 - Ensure the probe tips are clean and free of buildup that might impede conductivity.
 - Verify that the probes are positioned correctly at the desired liquid levels.
 - Confirm that the liquid has sufficient electrical conductivity for the probes to function.
 - Consult the GRL8 relay manual for its specific troubleshooting steps.
- **Physical Damage:** If a probe or its wire is physically damaged, it may need replacement.

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts, please refer to the documentation provided with your purchase or contact Luqeeq customer service through the retailer where the product was acquired.