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Garosa Garosay5pdgsfwg4-12

Garosa Level Transmitter 4-20mA Water Sensor (0-6m Range) Instruction Manual

Model: Garosay5pdgsfwg4-12

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Garosa Level Transmitter. This device is designed for accurate and stable liquid level monitoring in non-corrosive environments, providing a 4-20mA output signal. Please read these instructions thoroughly before installation and operation.



Image 1.1: The Garosa Level Transmitter with its integrated cable, designed for precise liquid level measurement.

2. SPECIFICATIONS

The Garosa Level Transmitter features robust construction and precise sensing capabilities. Key technical specifications are detailed below:

Parameter	Value
Power Supply Voltage	24VDC
Measured Medium	Water (non-corrosive liquid for stainless steel)
Measurement Accuracy	0.2% FS - 0.5% FS (conventional)
Output Signal	4-20mA
Medium Temperature Range	-20°C to 75°C
Ambient Temperature Range	-30°C to 80°C

Parameter	Value
Temperature Compensation	-10°C to 70°C
Protection Rating	IP68
Temperature Source	±0.01%FS/°C
Long Term Stability	±0.2%FS/year
Machine Impact	20g (20-5000HZ)
Item Weight	1.43 pounds
Product Dimensions	9.45 x 9.06 x 1.97 inches
Measurement Range	0-6 meters



Image 2.1: A close-up view of the transmitter body, highlighting its durable stainless steel construction and product labeling.

3. SETUP AND INSTALLATION

Proper installation is crucial for the accurate and reliable operation of the level transmitter. Follow these steps carefully:

1. **Safety First:** Ensure that the power supply is disconnected before beginning any installation or wiring procedures.
2. **Mounting:** The transmitter should be suspended vertically into the liquid. Ensure the sensor head is fully submerged and positioned away from strong currents or turbulence that could affect readings. The cable should be secured to prevent strain on the sensor.
3. **Wiring:** Connect the transmitter to a 24VDC power supply. The output is a 4-20mA current signal. Refer to the wiring diagram below for correct connections.
 - Red wire: Positive (+) for power supply.
 - Black wire: Negative (-) for power supply and signal return.
4. **Cable Management:** Ensure the cable is routed safely, avoiding sharp edges or areas where it could be damaged. The

cable is designed for submersion and durability.

5. **Power On:** Once all connections are secure, apply 24VDC power to the transmitter.

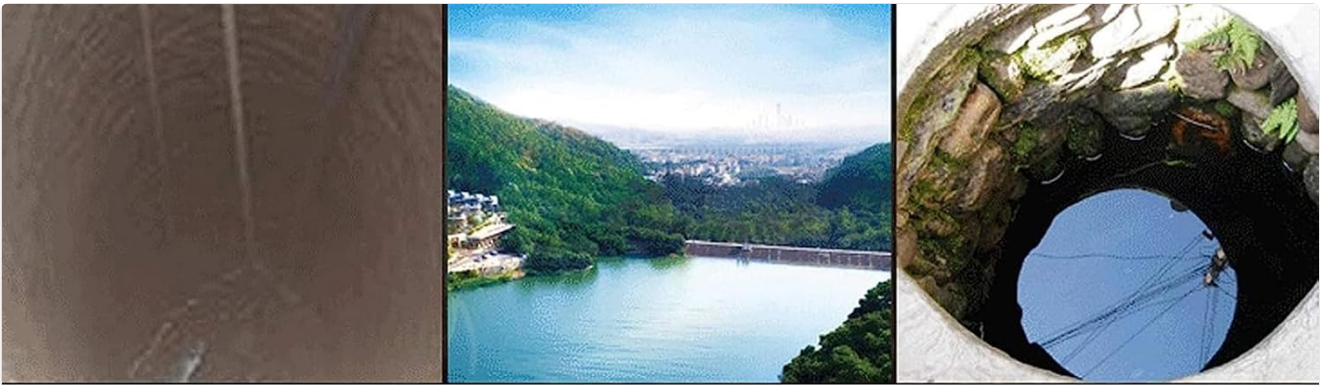


Image 3.1: The bare wire ends of the transmitter cable, indicating the red (positive) and black (negative) connections for power and signal.

4. OPERATING INSTRUCTIONS

The Garosa Level Transmitter operates continuously once powered, providing real-time liquid level data via its 4-20mA output.

- **Continuous Monitoring:** The sensor will continuously measure the liquid level and transmit the corresponding 4-20mA signal to your control system or display unit.
- **Signal Interpretation:** The 4mA output typically corresponds to the minimum measured level (e.g., 0 meters), and 20mA corresponds to the maximum measured level (e.g., 6 meters). Your receiving device should be calibrated to interpret this range correctly.
- **Environmental Considerations:** Ensure the measured liquid remains within the specified temperature range (-20°C to 75°C) and is non-corrosive to stainless steel to maintain sensor integrity and accuracy.



LEVEL TRANSMITTER

High accuracy silicon diffusers

More accurate monitoring of water levels

Full digital conditioning circuit

4-20mA signal output, more stable performance



Image 4.1: Examples of typical applications for the level transmitter, including large water bodies and confined wells.

5. MAINTENANCE

The Garosa Level Transmitter is designed for low maintenance. Regular checks can help ensure its longevity and accuracy.

- **Periodic Inspection:** Periodically inspect the sensor head and cable for any signs of damage, corrosion, or accumulation of debris.
- **Cleaning:** If debris or buildup is observed on the sensor head, gently clean it using a soft cloth and clean water. Avoid using abrasive materials or harsh chemicals that could damage the stainless steel housing or sensing elements.
- **Cable Integrity:** Check the cable for any cuts, abrasions, or kinks. Ensure the cable glands are tight to maintain the IP68 rating.
- **Connection Check:** Verify that all electrical connections remain secure and free from corrosion.

6. TROUBLESHOOTING

If you encounter issues with your level transmitter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No 4-20mA output	No power supply; incorrect wiring; damaged cable.	Check 24VDC power supply; verify wiring connections; inspect cable for damage.
Inaccurate readings	Sensor head obstructed; turbulence in liquid; incorrect calibration of receiving device.	Clean sensor head; reposition sensor away from turbulence; recalibrate receiving device.
Intermittent readings	Loose electrical connections; cable damage.	Check and secure all connections; inspect cable for damage.
Sensor not responding	Complete sensor failure; severe power issue.	Verify power supply is stable; if problem persists, contact customer support.

7. WARRANTY INFORMATION

This Garosa Level Transmitter is covered by a standard manufacturer's warranty against defects in materials and workmanship. The warranty period typically begins from the date of purchase. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation provided with your product or contact Garosa customer support.

8. SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Garosa customer support. Provide your product model number (Garosay5pdgsfwg4-12) and a detailed description of the issue to facilitate prompt service.

Contact information can typically be found on the product packaging, the official Garosa website, or through your point of purchase.