

Liquid Pressure Sensor

Understanding and Installing Your Lorentz Liquid Pressure Sensor

What is a Lorentz Liquid Pressure Sensor?

The Lorentz Liquid Pressure Sensor is a device used on solar-powered water systems to monitor and control water pressure. It helps maintain consistent water delivery and protects the system by preventing overpressure or running dry.

Why Use a Liquid Pressure Sensor?

- Prevents Pump Damage – Stops the pump if pressure gets too high or too low.
- Ensures Steady Water Flow – Keeps water pressure consistent for livestock watering or irrigation.
- Automates System Operation – Works with the pump controller to regulate water levels automatically.

Installation Instructions

The pressure sensor should be installed on the water line above the well seal and before any check valves to ensure accurate readings. Follow these steps for proper installation:

1. Turn Off the System
 - Disconnect power from the pump controller and solar panels before installation.
2. Identify the Installation Location
 - The sensor should be installed on a T-fitting in the water line, typically before any shut-off valve or check valve to avoid pressure buildup.
 - Ensure it is above the well seal but before any pressurized storage tank or outlet.
3. Connect the Sensor
 - Screw the pressure sensor into the designated port on the T-fitting.
 - Use Teflon tape or thread sealant to prevent leaks.
4. Wire the Sensor to the Pump Controller

- Follow the wiring diagram provided with the Lorentz controller.
- Securely connect the sensor wires to the designated input on the controller.
 - This is typically done in our shop during completion of your system

5. Test the System

- Restore power and slowly turn on the system.
- Observe the controller display to ensure it is reading the correct pressure values.
- If needed, adjust settings within the Lorentz controller to optimize performance.

Maintenance & Troubleshooting

- Check for Leaks – Inspect all fittings regularly to prevent water loss.
- Monitor Sensor Readings – Ensure the controller is displaying accurate pressure values.
- Clean the Sensor if Needed – If pressure readings fluctuate, the sensor may need cleaning or replacement.

Proper installation of the Lorentz Liquid Pressure Sensor helps protect your solar-powered well system and ensures reliable water delivery. If you need further assistance, Cap Solar is happy to help!