

SEELEVEL II™

Storage Tank Monitor

900-D4 Series

• Level • Volume • Temperature



Multiple Configuration Options



Sender Bar Options Available

The Garnet **SEELEVEL II™** 900-D4 series tank fluid monitor utilizes a patented, microprocessor-based digital system that measures the fluid **level**, **volume** and **temperature** in storage tanks. The 900-D4 has 10 years proven reliability in the industry.

900-D4 Features

- The SEELEVEL II™ Tank Monitor displays level, volume, temperature, alarm status and menu programming items.
- Fully digital system with 1/4" (6 mm) measurement increments plus or minus 1/8" (3 mm) accuracy.
- The display features large, backlit easy to read 4-digit LCD's.
- The weatherproof enclosure operates in an outdoor temperature range of -40 °F to +140 °F (-40 °C to +60 °C).
- The sender bar is Class I, Div 1 CSA certified. The display is Class I, Div 2 CSA certified.
- Sender bar operates in a product temperature range of -40 °F to +194 °F (-40 °C to +90 °C).
- Alarms consisting of a transistor conducting to ground are rated for 100mA at 24VDC.
- Float movement with the liquid is the only moving part.

SEELEVEL II™ System Benefits

Cost-Effective

- The SEELEVEL II™ Tank Fluid Monitor is a fully digital system and **recalibration is not required.**
- Includes temperature measurement so **no additional sensor is needed.**
- **Built-in diagnostics** simplify servicing.
- **Low-power technology** provides 3 - 5 years of system operation. Display runs on standard user replaceable batteries.

Self-powered

This battery powered system requires no external power which is ideal for portable and remote applications. The display provides the battery condition for itself and the sender bar.

Intrinsically Safe

The display receives the level and temperature information via fibre optics which removes the potential to cause arcing/sparking energy that could cause of an explosion.

Programmable and Secure

All functions on the gauge can be accessed with the built-in keypad. Security codes can be programmed to control access or limit features which is ideal for rental tank applications.

Configurable Features

- Select °F or °C
- Alarm set up for lights (extra)
- Security code access
- Alarm set up for horns (extra)

Service & Warranty

Our professional and knowledgeable technicians are on-call to assist you with any problems you may encounter. Products offer a one-year limited warranty.

Printed in Canada

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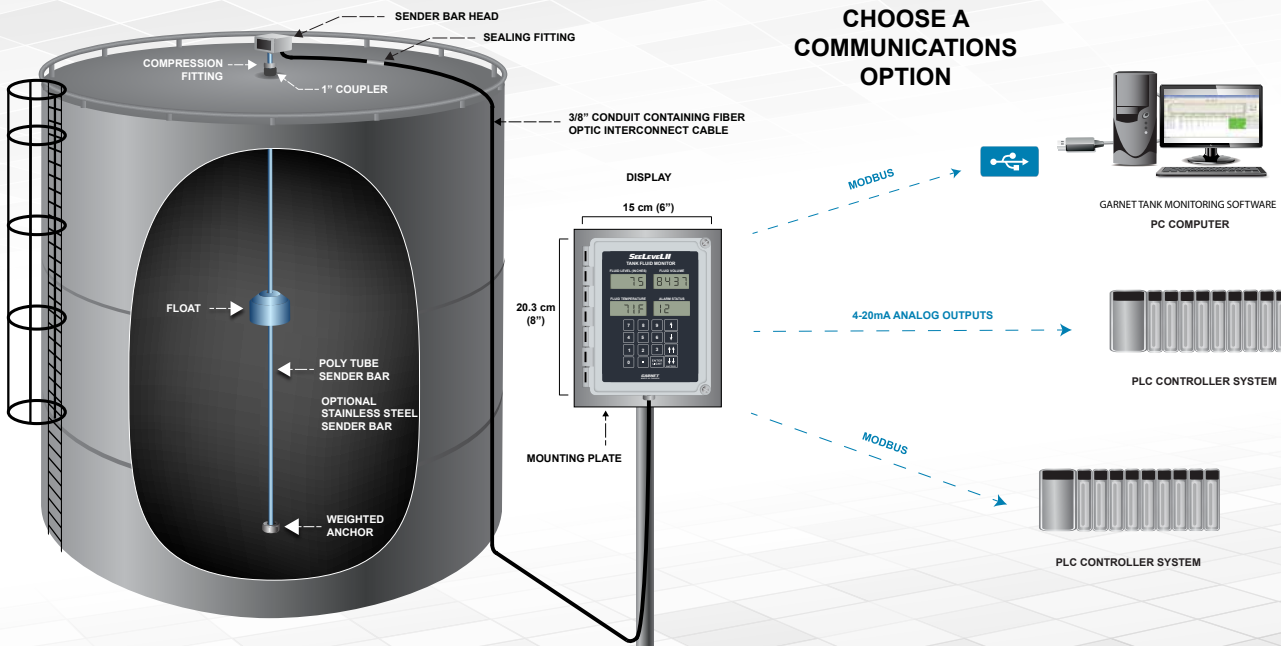
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Principle Operation

The SEELLEVEL II™ consists of a sender bar, a donut shaped float, a fibre optic cable, and a display. The sender bar is mounted vertically in the tank with the float sliding up and down in accordance with the fluid level.

The sender bar sends the fluid level, volume and temperature information via fibre optic cable to the display. The fluid temperature is the average value of the sensors below the fluid level. The display shows the level, volume, temperature, and alarm status to the user, and provides alarm and remote communication outputs.

Multiple Configurations Available

- **Single version** displays inches of level, volume, temperature, and alarm status full time.
- **Dual version** displays the volume and temperature of two tanks full time, with inches of level and alarm status for each available at the press of a button.
- **Interface version** has the ability to read two different fluid densities and displays the total, below interface, and above interface volumes full time, as well as temperature.

Remote Communication Options

If you require information related to the stores of chemical, water / brine, refined products, crude, or any other liquids rely on Garnet everyday. Reporting includes **Modbus** to the PC based Garnet Tank Monitoring software, analog **4-20mA** outputs to PLC or **Modbus to PLC**. Our customers' ability to view data from another location provides them with peace of mind.

Sender Bar Options

The electronics are housed within a 1" corrosion resistant sealed tube running from the top to the bottom of the tank. Several corrosion resistant float sizes and types are available to facilitate easy installation and operation with various fluids.

- **Polyethylene Sender Bar:** Flexible poly tube can be coiled up for shipping and to ease installation in tall tanks. Poly yields a lower cost per foot than stainless steel. Due to reduced rigidity, this version is best suited for fixed location tanks.
- **Stainless Steel Sender Bar:** Portable, mobile and fixed location tanks.
- Optional oil/water interface level available using a weighted float.

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