

SeeLevel II

Model 900D5 Tank Fluid Monitor



The Model 900D5 *SeeLevel II* is designed for reliable and accurate level, volume and temperature measurement in crude oils, chemicals, certain acids, water or fuels. The Model 900D5 features a modular design with a fiber optic connection between the sender bar and display. Its extensive diagnostic tools along with simple installation and servicing requires no external power sources or electrical personnel. Major level measurement applications include petrochemical, chemical, water, waste water, fuel, certain acids and other liquid storage applications.

Self-Powered, stand alone operation with no external power requirements

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Compact, rugged and reliable

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Accuracy to 0.125" in tanks up to 32 feet in height

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Large backlit, easy to read LCD displays shows level, volume, temperature and alarm status.

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Field calibratable with security code control access

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CSA, Class I, Div 1 and Div 2 approvals

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Principal of Operation:

Reed switches located in the sender bar are activated by magnets in the float that generate a signal which is read by a microprocessor. This signal is transmitted to the display through a plastic fiber optic cable, providing electrical isolation for hazardous environments.



Specifications:

Sending Unit:

- Bar:
 - 316 Stainless Steel, 1.0" diameter.
 - Resolution: 0.25" (6 mm).
 - Accuracy: +/- 0.125" (3 mm).
 - Temperature drift is zero.
- Fitting requirements:
 - Tank Top: 1.0" NPT female.
 - Tank Bottom: Weighted anchor or a weld in anchor.
- Float:
 - Standard: 316 SS
 - Optional: Polyethylene for acid applications.
- Temperature Sensors:
 - Up to six sensors spaced 16" or 32" apart are mounted in the sender bar.

Power Requirements:

No external power necessary unless external alarm Indicators are used.

- Display: 4 "D" cell batteries
- Sender Bar: Internal 3.6 volt Lithium battery
- Alarms: External indicators must provide their own power.

Display Unit:

- Enclosure:
 - 8" w X 10" h X 6" d NEMA 4 rated fiberglass enclosure with 0.5" LCD and LED backlight.
- Alarms: 4-alarms each consisting of a transistor conducting to ground when the alarm is "active" or "closed" at alarm point.
 - Transistor rating: 100mA at 24VDC.
 - Optional relay interface available for 115VAC applications.
- Remote Communications:
 - Two 4-20mA two wire outputs for volume and temperature. Optically isolated 12 to 24 loop voltage required.
- Fibre Optics:
 - Length: 200 ft. (60 m).
 - Optional signal booster available for longer runs.

Environmental:

- Operating Temperature:
 - 40°F to +194°F (-40°C to +90°C).

Certifications:

Display: CSA, Class I, Div 2
Bar: CSA, Class I, Div 1