

Tank Level Monitoring System

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Technical Data Sheet

Introduction

Solvay Chemicals, Inc. offers a service to remotely monitor the level in the hydrogen peroxide storage tank. For customers that purchase 100% of their hydrogen peroxide requirements in tank trucks, this service can simplify the inventory management process.

How It Works

A level device sends an electronic signal to a display/controller unit mounted near the storage tank. At a predetermined time each day, the display/controller unit transmits the tank level measurement to a central computer using an ordinary phone line. After verification of the integrity of the data, the system generates a report showing the measurements for the last 30 days. The Solvay Chemicals Customer Order Services Department compares the level reading with the predetermined reorder point and decides if an order should be placed. If so, the Customer Order Services Representative enters an order and confirms the order with the customer.

System Requirements

- **Level Device.** It must produce an electronic signal. This can be from either an existing instrument or a new one. The electronic signal can be in various forms (mA, mV, or digital).
- **Tank Nozzle.** If a new level instrument is required, Solvay Chemicals can supply an ultrasonic device. It fits into a 2 inch diameter nozzle (or larger) on top of the storage tank. Power is supplied from the display controller.
- **Display Controller.** This unit is supplied by Solvay Chemicals. The NEMA 4X weatherproof cabinet (12" high x 7" wide x 7" deep) may be installed inside or outside depending on the climate (-20°F minimum). It must be mounted within 1000 feet of the storage tank. A backup battery provides power to save the program and level measurements, but no data will be transmitted until electricity is restored. The display/controller has remote diagnostic capability in case of problems.
- **Electricity.** A standard electrical supply (110VAC, 1 amp) provides power to the display/controller.
- **Telephone Line.** A direct dial telephone line with long distance capability enables the transmission of the data. If the line is not dedicated, there may be interference.

Service

The information on the checklist on the reverse side of this Technical Data Sheet will assist in establishing this service. After Solvay Chemicals determines that remote level tank monitoring is applicable to your situation, our third party service provider will be contacted. They will ship the equipment and schedule the installation (typically within four weeks). Their technicians can install the equipment and wiring or assist your site's personnel. To find out more about this system, contact your Customer Service Representative at 1-800-SOLVAY-C or 1-800-765-8292.



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Checklist For Tank Level Monitoring

Administrative

Company: _____

Address: _____

Contact: _____

Telephone: _____

Storage Tank

Size (gals.): _____

2" Top Nozzle: Yes No

Orientation: Horizontal Vertical

Diameter: _____

Height/Length: _____

Strapping Chart: Yes No

Current Level Device

Type: Ultrasonic Diaphragm Capacitance Sightglass Other

Manufacturer: _____

Model: _____

Service Record: Good Bad

Signal Type: mA mV digital

Signal Span: _____

Hydrogen Peroxide Usage (gals.)

Average Daily: _____

Minimum Daily: _____

Maximum Daily: _____

Reorder Point: _____

Other Factors: _____

Other

Labor: Union Non-Union