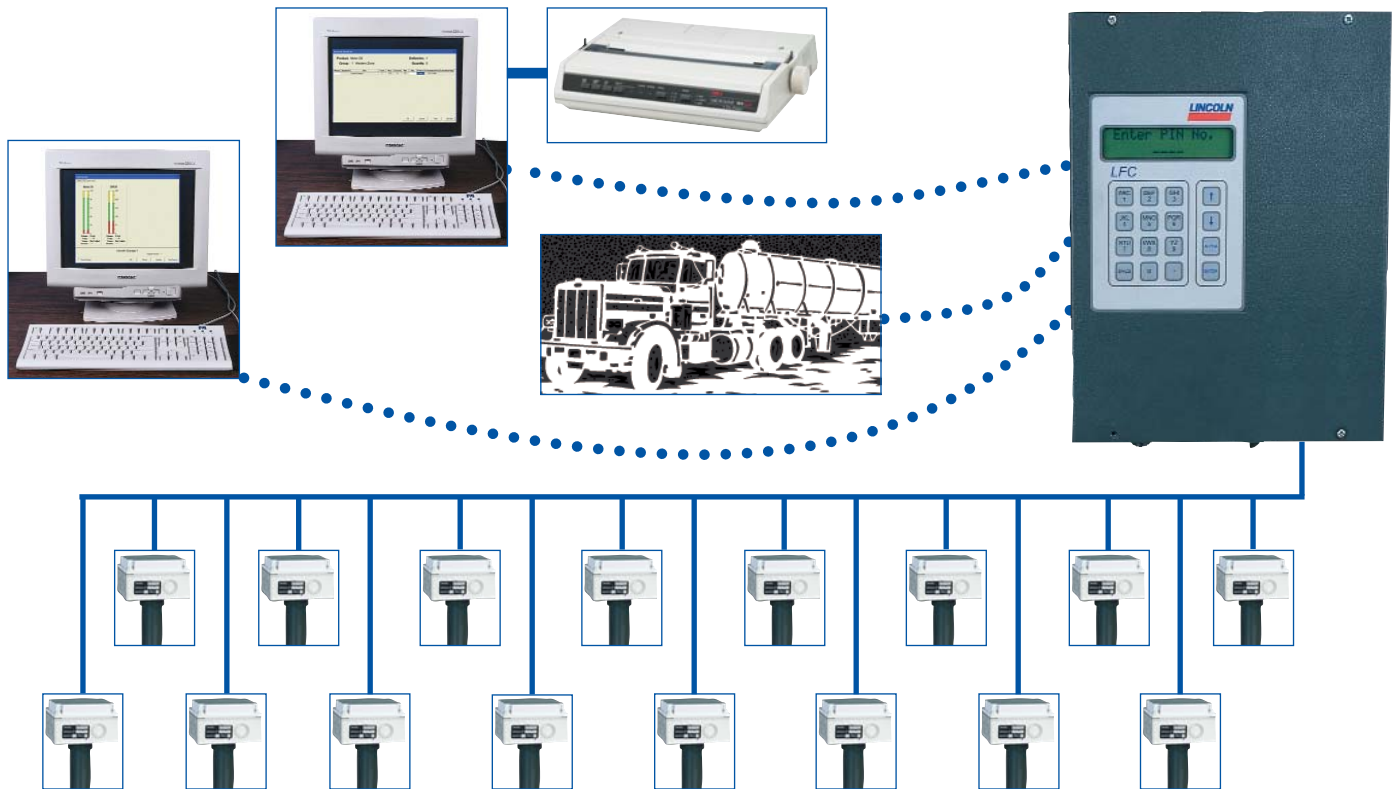


LFC Tank Monitoring System

The LFC Tank Monitoring System electronically manages, maintains and verifies product deliveries and inventories. The tank level readings are based on real time fluid levels using an ultrasonic probe. The system automatically records product delivery providing independent verification of amount delivered. It functions as an integral part of the LFC 3000, but can also be used as a stand alone unit.



Features

- Manage up to 16 ultrasonic tank gauge probes by tracking volumes and monitoring warning levels
- Control box manages all aspects of the system and contains a keypad, LCD display, power supply, and land line modem
- Remotely monitors the system via modem. Links the oil company directly to their customers to improve logistics and schedule deliveries
- Secure remote transfer of data with unique site IDs, security codes and keypad phone numbers
- Run PC reports by site, product, forecast, event log and level log
- Select “In+Out” or “Incoming Only” system configuration:
 - In+Out: System dials out whenever a low level event or a delivery occurs with any of the monitored tanks
 - Incoming Only: Control box stores up to ten warnings or deliveries and will update the PC when it dials in
- Configure tank size and shape
- Each tank probe has a float switch input to warn of possible leaks in double-walled tanks and two output contacts to signal alarms remotely
- The tank probes detect levels for a variety of fluids and are inserted through the 2" bung opening in both indoor and outdoor tanks

Technical Data

The tank monitor components have been designed to operate as three unique systems.

Stand-Alone Tank Monitor System

The system comprises of tank probes with ultrasonic transducers and drive electronics which are inserted into the top of each tank. Up to 16 probes are connected to a tank gauging box with LCD display and keypad and controls all aspects of the system. The control box keeps track of the volume in each tank and monitors any warnings.

Tank Monitor System and LFC 3000

Wire into the LFC 3000 network for controlled dispenses and automatic tank volume status updates. Another benefit of this integration is the automatic adjustment of the LFC 3000 to its new stock level when a delivery is made eliminating the need to manually enter these delivery quantities.

Remote Monitor Multiple Sites

The Tank Level Management PC Software (Model 282857A) allows you to remotely monitor multiple sites via the tank gauge control boxes' integrated land line modems. This will link a control center for level status, to improve logistics and schedule deliveries for multiple sites.

System Specifications

Control box / display keypad	1
Ultrasonic tank gauge probes	1 - 16
Number of fluids	1 - 16
Tank calibration	Gallons, liters
Delivery / warning log	10

Electrical Specifications

Control box input	120 VAC, 50/60 Hz
Control box output	12 VDC
Internal modem	9600 baud

Report Capability at PC

Site	Site details including address, contact, phone and security code
Product	Reports by product
Forecast	Indicates product, monthly forecast and actual per site
Event log	Logs received, scheduled deliveries and tank warnings by site and tank
Level log	Records order quantities, upper/lower limits and actual quantities to date, delivery urgency

Network Cable Specifications

Description	Type	Distance
Network	Belden "Apple Talk" 9999 Belden 8451, 8760 Alpha 24561	Total Network: 2460 feet (750 meters) Junction Box to Network Component: 9 feet (3 meters)

Lincoln LFC Tank Monitoring Control Components

Component	Description	Model	Quantity
Gauging Control Box	One for each system controls 1-16 ultrasonic tank gauge probes	282854A	
Ultrasonic Tank Gauge Probe	Ultrasonic probe with extended tube—maximum 300 mm and 2" bung adapter. Maximum 16 per gauging control box	282853A	
Tank Level Management PC Software	PC software located at the oil company or control site for remote monitoring	282857A	



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