

Centeron Tank Monitoring System

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Centeron's advanced tank monitoring system gives you the ability to prioritize deliveries, optimize truck loading and reduce emergency fills and fleet size. Using state-of-the-art technology, the system gives you the level of info you need, when you need it. The sensor technologies have years of proven reliability in the field and the long battery life eliminates worry of frequent replacements. The monitor, controller and data center combine to help you manage your tanks better than ever before.

Tank Level Monitors

All Centeron propane monitors use a robust Direct Sequence Spread Spectrum battery powered radio for reliable, wireless data communication, even from underground tanks. And each monitor is intrinsically safe, so they can be located in the hazardous area of the propane tank without worry. Installation is quick and easy, requiring no special tools or technical skills. And all have UL50 Type 3 enclosures to provide the protection needed in a propane environment.

Gauge Monitor

The Gauge Monitor is magnetically attached to the propane tank. Propane level is measured using a reliable Hall effect sensor that senses float position inside the tank. No tank penetration is needed for installation. The sensor snaps into tank gauges equipped with the Rochester Remote Ready gauge, or replaces the entire mechanical dial. Monitor installation takes less than 5 minutes.

Alarm Monitors

Centeron Alarm Monitors are the perfect solution for your monitoring needs if immediate notification is needed when alarm set points are exceeded. They are used with the Centeron Alarm Console to generate an audible or visual alarm on site or used with the Centeron Data Center for remote monitoring.

Switch Monitor

The Centeron Switch Alarm Monitor can be interfaced with a variety of simple switches. Use it to monitor position switches, temperature switches or pressure switches. The Monitor transmits immediately whenever the switch changes state and has the capacity to handle up to two independent switches.

High Level Alarm Monitor

Centeron Alarm Monitors sense fluid level and immediately transmit an alarm signal when a set point level is reached. The Dual Input High Level Alarm Monitor is specifically designed to provide two alarms for added protection against overfills. Use it with the Centeron Alarm Console to generate an immediate audible and visual alarm, or to automatically shut down the dispensing pump. Just reset the console after the first alarm and the monitor will transmit again when the second limit is reached to re-activate the alarm. The monitor also communicates with any standard Centeron Controller so the alarm status can be accessed at any remote location with Internet access.

Centeron Controllers receive information transmitted by Centeron monitors and send it to one of the Centeron Data Collectors for customer access. Each controller is set up by the customer through the data collector and can be revised at any time to optimize system performance. Controllers with various monitor capacities and performance features are available to suit a wide variety of applications.

Residential Controller

The Residential Controller wirelessly receives transmitted data from a single Centeron Monitor and sends it to the Centeron Data Collector for customer access.

Commercial Controller

The Commercial Controller wirelessly receives transmitted data from up to 20 Centeron Monitors and sends it to the Centeron Data Collector for customer access.

Store & Forward Controller

The Centeron Store & Forward Controller stores all data transmitted by the assigned monitors. It stores up to 100 data points then automatically downloads the information to the Centeron Data Center for customer access. The controller contacts the Data Center immediately when any monitor transmission is manually initiated so current tank status is available on demand.

Large Tank Gauges

Rochester and Taylor large dials are available with the gauge monitor attached. Both 4' and 8" dials are available.

Alarm Console

On-site personnel use the Centeron Alarm Console and Centeron Alarm Monitors for applications that require immediate attention when the monitored parameter exceeds a preset value. The Alarm Console can be used to activate an audible or visual alarm or switch an external relay when an alarm condition occurs.

Data Collection

Centeron offers several ways for customers to remotely access their tank information. The Centeron Data Center is an Internet based system that provides access for multiple users from any location with Internet access. It is the most versatile and lowest maintenance system. The PCView data collectors offer customers the ability to collect and manage their tank information independently. Whatever the system, all Centeron data collectors provide customers with easy access to their tank information and provide secure and reliable performance.

“Web View” Centeron Data Center

The “Web View” Centeron Data Center is designed to meet the needs of businesses of all sizes. From single site facilities to thousands of tanks located throughout North America, the Centeron Data Center can be customized to fit any business need. And since it is Internet based, tank information is easily retrieved from any location with Internet access. Robertshaw manages the data center to ensure customer information is safe and secure and to maintain optimum system performance.

PC View” Centeron Data Center

PC View is for businesses that want to take advantage of Centeron wireless monitor and controller technology and want to manage their tank information independent of the Centeron Data Center. Monitored information is received and processed by facilities maintained by the end user. Two PC View options are available.

Local PC View collects information from monitors in the immediate vicinity of the managing facility. All monitors are within radio range of a Centeron Controller that is directly connected to the facility PC. Local PC View software is installed on the computer to enable tank set up, data display, and customized report formats.

Remote PC View collects information from monitors that are located at any off site or on site location. Controllers at off site and on site locations are programmed with a phone number that directs outgoing calls to the managing facility PC. Remote PC View software is installed on the computer to enable tank set up, data display, and customized report formats.

Delivery Logistics

Dispatch Compass™ is a web based, dynamic fleet routing system built from the ground up specifically for the liquid product delivery markets. It enables dispatchers to quickly create efficient delivery routes for all combinations of scheduled, will call, and remotely monitored tanks. Any fleet of bulk, multi-compartment, packaged goods, or combo trucks will travel fewer miles in less time for less cost than ever before when Dispatch Compass is used to determine their daily routes

For companies that use remote tank monitoring, the Dispatch Compass OptiFill option automatically decides which tanks at multi-tank locations need product so that "top offs" are eliminated and fleet capacity is maximized. With OptiFill a dramatic increase in delivery capacity can be realized so that new customers can be added with no additional trucks or drivers.

Centeron Tank Monitoring System (cont.)

Part Number	Description
RPS000T	Centeron Kit -- GM-240 monitor;TC-001 Single Channel Controller; 5 ft. Harness (Remote Ready Dial and Call Block are not included)
Optional Individual Components for Replacement or Multiple Installations	
GM-060	Wireless gauge monitor (includes 5ft cable harness) - 60 minute transmit interval
GM-120	Wireless gauge monitor (includes 5ft cable harness) - 120 minute transmit interval
GM-240	Wireless gauge monitor (includes 5ft cable harness) - 240 minute transmit interval
DG000AIS	Cellular LP monitor - no wire harness or dial
DG000IAIS	Cellular LP monitor with 5 ft wire harness, no dial
TC-001	Single Channel Receiver w/ temperature option
TC-001B	(4) Multi-Channel Receiver w/temperature option
TC-001C	(20) Multi-Channel Receiver w/temperature option
LD10	Tank console - Displays inventory status for 10 tanks from any Centeron Wireless Tank Monitor
SA000EDI00F9000	SatcOMM Gateway Satellite sytens:24 hour transmit internal, 100-240 VAC,antenna with mounting hardware
SA000EDI00F9001	SatComm Gateway Satellite sytens:24 hour transmit internal, 12V DC input, antenna with mounting hardware
Renewable Call Blocks	
500 CALL BLOCK	Block of 500 Calls
1000 CALL BLOCK	Block of 1,000 Calls
5000 CALL BLOCK	Block of 5,000 Calls
Remote Ready Tank Gauge Dials	
130022	Taylor A Style replaces 2701 CV Top Mount Remote Ready (Pinholes: Large at 95% and Small at 35%)
130023	Taylor B Style Replaces 2701 CV Top Mount Remote Ready (Pinholes: Small at 65% and Large at 5%)
5909S02733	Rochester Junior Above Ground Tank Gauge, Remote Ready
5986S02733	Rochester Senior Above Ground Tank Gauge, Remote Ready
5909S02772	Rochester Junior 420 DOT / TABS Tank Gauge Remote Ready
5AAAS02772	Rochester Junior 420 DOT SNAP ON Tank Gauge Remote Ready
GSLRH10100	Rochester 8" Bulk Gauge w/10ft wire Remote Ready - w/8 bolts top bolt at 12 Noon
GSLTH10100	JY Taylor 8" Bulk Gauge w/10ft wire Remote Ready - w/7 bolts
GSLMH101000	Rochester Magnetel 4" dial Remote Ready
GSLSH10100	Rochester Sr 4" dial Remote Ready
Harness Cables	
GSU05	5 Foot Length - Propane Harness Cable
GSU10	10 Foot Length - Propane Harness Cable
GSU20R	20 Foot Length - Propane Harness Cable
SIC86640	Serial cable connets controller to PC, for non call block applications