



MCL CONTROL



Sentinel

SERVICE STATION SENTINEL

23 02 2022 15:22:51.469

PANTALLAS

Inicio

Alarmas y Paros

Configuracion

Paro de Emergencia

TANQUES

Tanque 1

Tanque 2

Tanque 3

Tanque 4

Tanque 5

Tanque 6

⚠ Fecha - Hora Nombre Mensaje

ServiceStationSentinel™

Tank inventory management system for gas stations

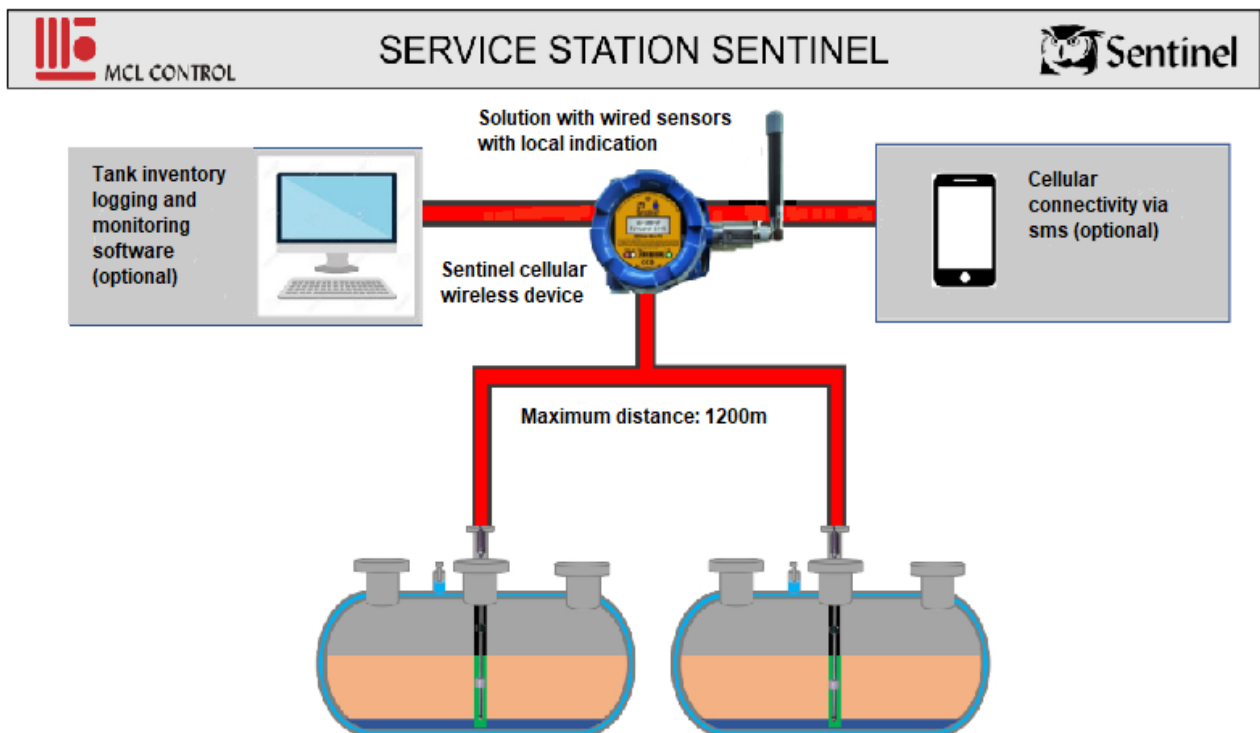
www.mclcontrol.com



DESCRIPTION

ServiceStationSentinel is a powerful solution of the tank inventory of service stations for motor vehicles, providing an automated solution to said process.

Service Station allows automatic fuel level measurement reducing the risk to workers. It also minimizes the risk of environmental disasters due to leaks. With Service Station, you increase the profitability of your business by providing inventory registration and control, improving the accuracy of inventory calculations and minimizing the risk of fraud.





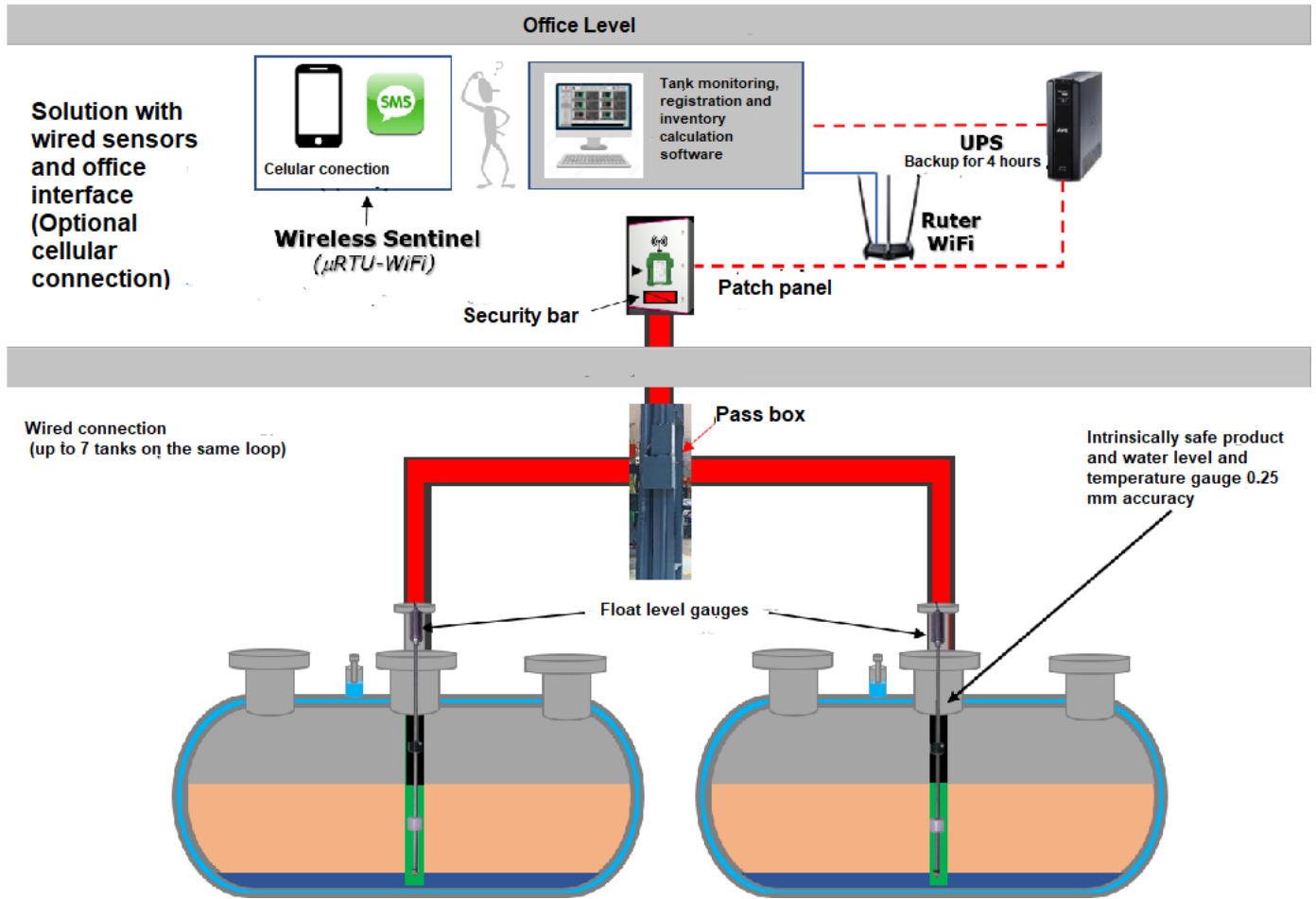
FUNCTIONALITY

The solution has the functionality of:

- Read the value of the level and temperature of the product, and the level of water in each tank or compartment.
- Calculate the product inventory in each tank, considering its calibration tables, the water level, the base density of the product (optimal) and the product temperature.
- Keep a record of the daily inventory of each tank.
- Report alarms by level in the tanks and send reports via SMS messages:
 - Product level and volume report, average temperature and water level.
 - History of alarms and losses due to evaporation.
 - Inventory control due to shift change.
- Detect and report leak conditions (tightness tests).
- Allow changing configuration parameters.

CONFIGURATION

- Alarm levels, reports and tank calibration tables can be modified by the user once the system is installed. For which access codes are used for authorized users.
- The system can provide high and very high water level alarms, low and very low product level alarms, high and very high product level alarms as well as high or low tank temperature.
- During periodic static tests the system can detect leaks.
- All alarms are sent via text message to competent personnel.



SENSORS

Standart Version

Magnetostrictive probe



- Product and water level temperature measurement
- Accuracy: $\pm 0.25\text{mm}$
- Resolution: 0.01mm
- Explosion proof
- Wired (Modbus Protocol)

Wireless technology

Wireless level meter



- Can transmit data over 3 km away
- Product and water level
- Temperature measurement
- Accuracy: $\pm 1\text{cm}$, $\pm 0.2^\circ\text{C}$
- Resolution: 0.5mm



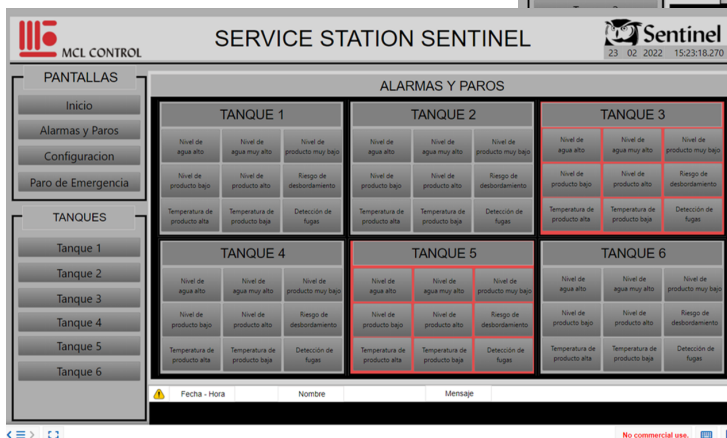
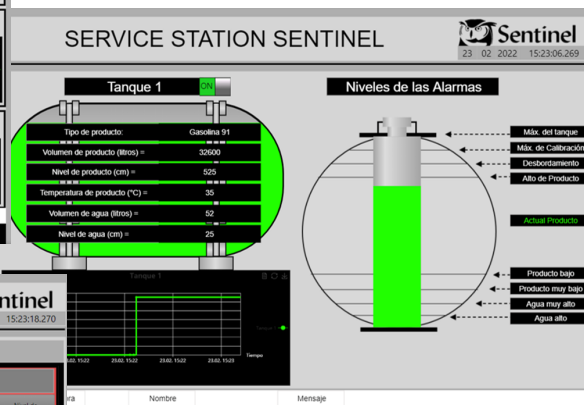
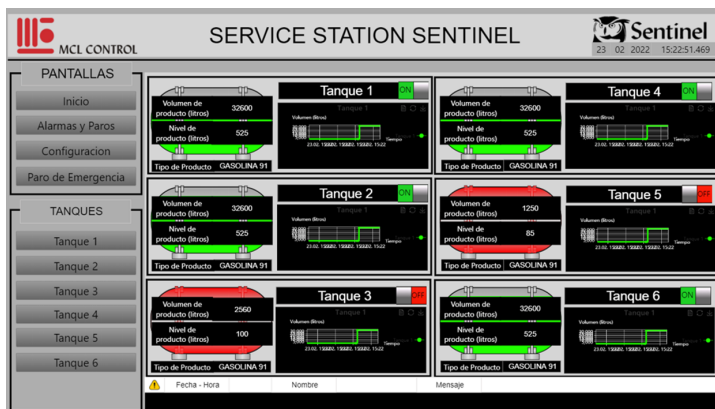
HMI

ServiceStationSentinel provides a series of standard, ready-made screens based on our experience with these types of applications. Screens include options such as user control based on authorization levels, tank system monitoring detailing fuel and water levels as well as the temperature in each tank.

Within the interface, the different levels can be configured and inventory control can be carried out at the end of each dispatch shift. The interface registers the initial and final volume and the difference in volume at the end of the shift, along with the date and time.

The **ServiceStationSentinel** also offers the option of viewing the most important values of the process through human-machine interfaces that run on a personal computer and/or an application on the telephone with local and/or remote access through the Internet. In this way, the user can monitor in real time the level of the product, the

level of water, and the temperature of the gasoline or diesel, as well as the possible alarms.





What does the ServiceStationSentinel include?

- Information gathering in the field.
- Approach of alternatives for the implementation of the system.
- Engineering development for implementation.
- System Supply.
- System configuration.
- Installation supervision.
- On-site tests.




INSTALLATION OPTIONS

- Wireless connection and sensor battery operation.
- Office monitoring software for PC and mobile.
- Monitoring reporting capacity and alarm reporting via SMS messages.




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