



Wireless Tank Monitoring at Cardlock Fueling Facilities

Application Bulletin:

OEL_Cardlock



APPLICATION

Description

OMNTEC wireless tank monitoring systems have proven to be an extremely efficient and cost-effective tank monitoring solution for cardlock fueling facilities.

These systems are quickly and easily installed on both aboveground and underground storage tanks without the need for expensive and time-consuming trenching, conduit, and hard-wiring. These systems are also ideal for temporary and mobile fueling sites as the equipment is easily removed for transport to another site.

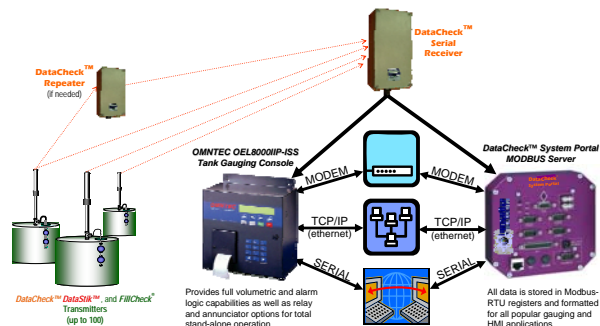
Available subsystems include:

- **FillCheck**® wireless tank overfill protection
- **DataCheck**™ wireless sensor control & power
- **DataStik**™ wireless tank inventory monitoring
- **OEL8000II-W** wireless tank monitoring system controller
- **BrightEye**™ series leak detection sensors

These subsystems can be seamlessly combined and integrated to create a powerful custom configuration to suit

any storage tank monitoring requirement.

Because many Federal, State, and Local ordinances now mandate *fully redundant* tank overfill protection, these wireless systems are ideal as they enable tank operators to comply without the expense of trenching and laying additional conduit and wiring.



Available Components

FillCheck® Wireless Tank Overfill Protection

- **MonoCheck™**, **DuoCheck™**, and **VersaLevel™** point level switches – any dry contact lank level switch may be used
- **FillCheck®** discrete input alarm transmitters (part no. DC-TX-D1)
- **PFCheck™** portable overfill protection for rail car and barge loading (part no. DC-TX-D1)
- **FillCheck® Alarm Manager** digital annunciator consoles (part no. FI-RX-AM)

DataCheck™ Wireless Sensor Control & Power

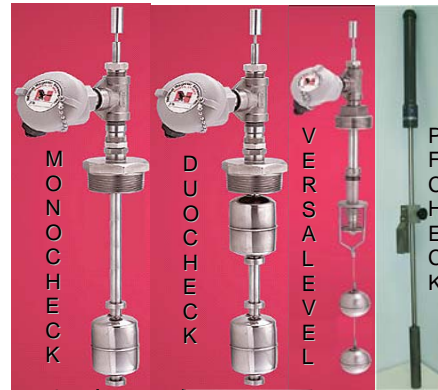
- **DataCheck™ Transmitter** (part no. DC-TX-A1), allows powering and communication for analog sensors (i.e., pressure, temperature, flow, etc.)
- **DataCheck™ System Portal** (part no. DC-RX-SP), provides SCADA access to all transmitter data via serial and TCP/IP using MODBUS-RTU protocol

DataStik™ Wireless Tank Inventory Monitoring

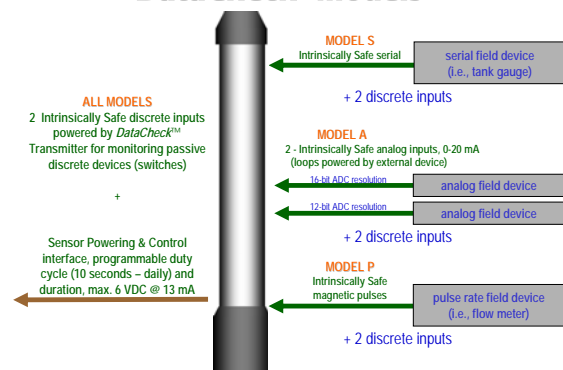
- **DataStik™** Wireless Tank Level and Temperature Transmitters, available in rigid SS construction (part no. DS-1S-xxx, up to 7m length) and flexible PVDF (part no. DS-1K-xxxV, up to 15m length). These probes provide accurate product level, interface (water) level, and up to 5 temperature measurements spaced evenly across the tank height

OMNTEC® Fuel Management Systems

- **OEL8000II-W™** Wireless Tank Monitoring System Controller, provides a user-friendly yet comprehensive interface with full local and remote communications capabilities. Manages up to 99 wireless probes and up to 44 **BrightEye™** series sensors. Provides optional FAX/modem and TCP/IP (internet) connectivity, and can be programmed to provide alarm and status notification via e-mail, SMS, and FAX.
- **BrightEye™** series sensors are connected to the OEL8000II-W via RS-485 4-wire multidrop. Up to 44 sensors may be connected using 2 cables (up to 22 sensors per cable). Sensors available include liquid sensing (both hydrocarbon discriminating and non-discriminating), temperature, pressure, and any contact closure.
- **OMNTEC-PC™** remote monitoring software (part no. OMN-PC) is a full-feature graphic user interface for wireless and hardwired OEL8000II systems. This software permits remote access to any OEL8000II system equipped with an Ethernet card (part no. IB-NET) or Fax/Modem module (part no. MDR-2)



DataCheck™ Models



Protected under U.S. Patent Number 6,369,715. Other Patents pending.

