

For immediate release

Page 1 of 4

January 18, 2010

## **Emerson introduces wireless functionality for tank gauging systems**

*-A hefty 70% reduction of installation cost for high precision Rosemount tank gauging is now made possible through the launch of Smart Wireless field communication.*

The Rosemount TankRadar Rex and Pro tank gauging system from Emerson now includes Emerson Smart Wireless functionality. High precision tank gauging with better inventory and loss control can be made available anywhere on the plant at a much smaller cost than before.

### **Simplifies retrofit of high precision radar gauges**

Many tank storage facilities that would benefit from modern, non-contact gauging have obsolete or non-existing signal wiring from the tank storage area. Retrofit of the gauging system in such plants is normally expensive and time consuming as the distance between storage tanks and the control room can be more than one kilometer requiring extensive trenching and cabling.

As a result of budget restrictions, some plants therefore continue to experience maintenance problems by keeping low performing mechanical tank gauges. Now, with innovative Emerson Smart Wireless technology, installation of a new radar based Rex and Pro systems can be done without any new long distance signal wiring. This will radically reduce material and labor cost as well as engineering and project execution time.

“The first installations of wireless tank gauging are already done and operate successfully on three sites.” says Technical Product Manager Mikael Inglund. “All those tanks had power cabling available but no proper signal wiring so the customers saw really great cost saving by not having to do any new cabling work.”

### **THUM's up for safe and reliable communication**

By connecting the Smart Wireless THUM adapter to the radar gauge on the tank top complete tank inventory data can be sent to the control room via wireless HART communication.

The self organizing mesh network ensures uninterrupted data communication also in an environment with large mechanical obstacles such as storage tanks. Every THUM adapter serves as a network connector and backup so there is no single point of failure. All data transfer is protected by 128-bit encryption for best-in-class-security.

### **Full custody transfer and inventory control**

Data are received by the Smart Wireless Gateway in the control room area and fed into the inventory management software package or DCS system. In addition to level data, all relevant data from multi point temperature transmitters, pressure sensors and water bottom level sensors are transmitted.

Wireless tank gauging also means that precise inventory data for remotely located tanks that was previously out of reach can be made available. For those plants already using Emerson's Smart Wireless, installation of the first gauging units will be even more easy as they can use mesh nodes from other Emerson equipment.

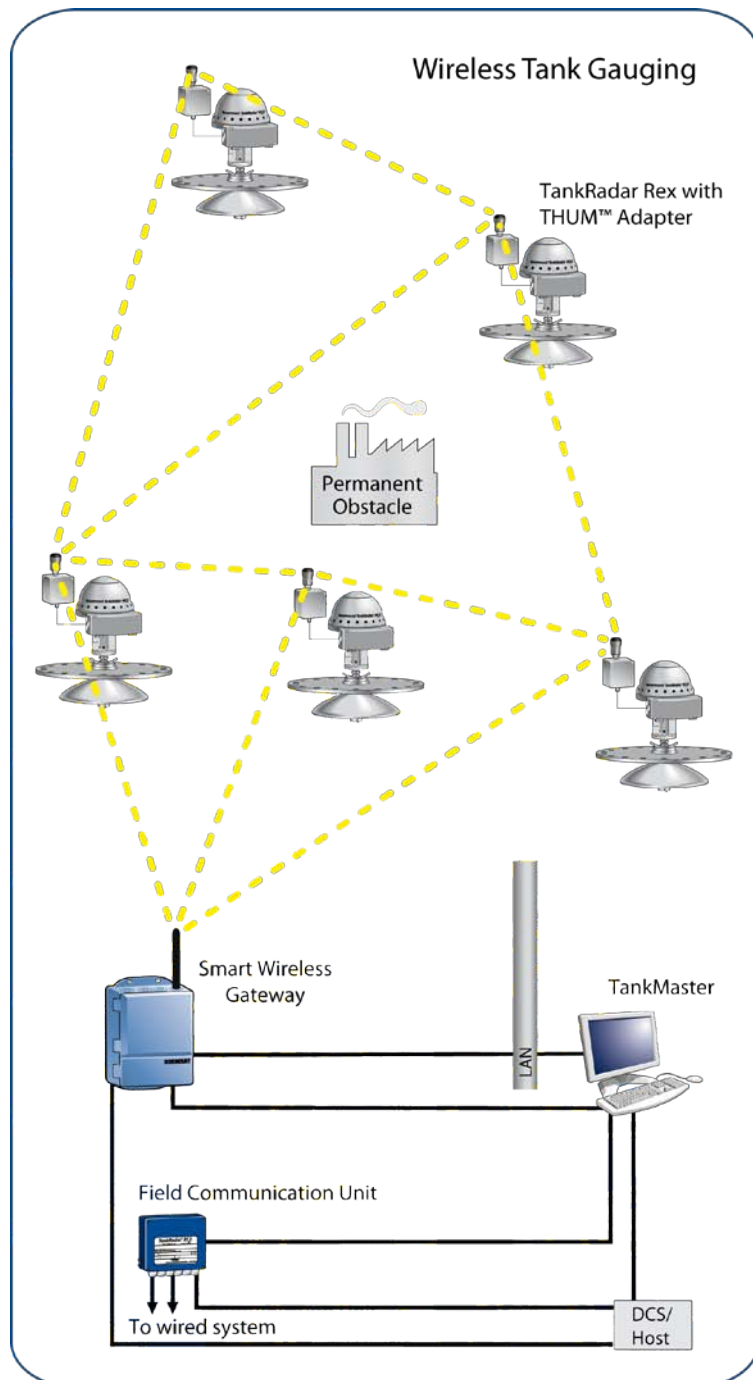
### **Global leader in high precision tank gauging**

Emerson's Rosemount Tank Gauging Systems are global market leaders in high precision tank gauging, used at refineries and bulk liquid storage plants. The custody transfer approved system can be applied on all types of storage tanks, both fixed roof and floating roof tanks. Applications range from light products such as LPG, LNG and gasoline to crude oils and asphalt.

## Images

There are two images to accompany this release. See following link for high resolution pictures:

[http://www.rosemount-tankradar.com/images/Press\\_release\\_TG/Wireless/Wireless\\_TG\\_pics.zip](http://www.rosemount-tankradar.com/images/Press_release_TG/Wireless/Wireless_TG_pics.zip)



Tank gauges work as mesh nodes securing data transfer in spite of mechanical obstacles.



The THUM adapter is normally mounted close to the gauge on the tank roof.

## Notes for the Editor

### About Emerson Process Management

Emerson Process Management ([www.EmersonProcess.com](http://www.EmersonProcess.com)), an Emerson business, is a leader in helping businesses automate their production, processing and distribution in the chemical, oil and gas, refining, tank storage, power, water and wastewater treatment, food and beverage, pharmaceutical and other industries. A business unit of Emerson, Rosemount Tank Gauging, ([www.Rosemount-TG.com](http://www.Rosemount-TG.com)) is the largest manufacturer of high-precision tank gauging with radar level gauges, temperature and pressure instrumentation. Rosemount's best-in-class technology and expertise play a key role in Emerson's combining of superior products and technology with industry-specific engineering, consulting, project management and maintenance services. Emerson brands include PlantWeb®, Rosemount®, Fisher®, Micro Motion®, Mobrey®, Daniel®, DeltaV™, Ovation®, and AMST™ Suite.

### About Emerson

Emerson (NYSE: EMR), based in St. Louis, is a global leader in bringing technology and engineering together to provide innovative solutions to customers through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. Sales in fiscal 2008 were \$24.8 billion and Emerson is ranked 94th on the Fortune 500 list of America's largest companies. For more information, visit [www.Emerson.com](http://www.Emerson.com).

### CONTACT ADDRESSES:

**Emerson Process Management  
Rosemount Tank Gauging  
P O Box 13 045  
Sweden**

**Email: Hans.Westerlind@Emerson.com**

**Telephone : +46 31 3370226**

**Web: [www.Rosemount-TG.com](http://www.Rosemount-TG.com)**