

# Tank Gauging Upgrades

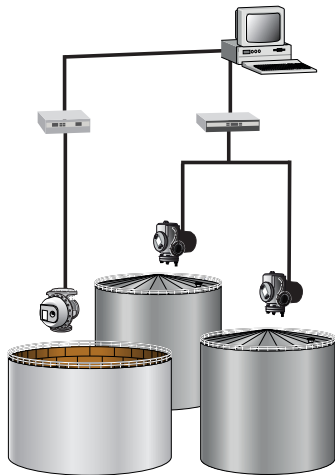
## Make Your Tank Farm Ready for the Future

### WHAT IF...

you could make your existing tank gauging system interoperable and **easy to upgrade** step-by-step?



### Common Tank Farm Challenges



- Old tank gauging systems are difficult to upgrade due to obsolete infrastructure using proprietary communication buses
- There is no viable way to minimize operational disturbances by making upgrades incrementally
- The HMI/Operator software is outdated and can only communicate with legacy equipment
- You cannot get tank inventory data in your existing HMI/DCS system
- There is no critical communication redundancy

### The Emerson™ Solution



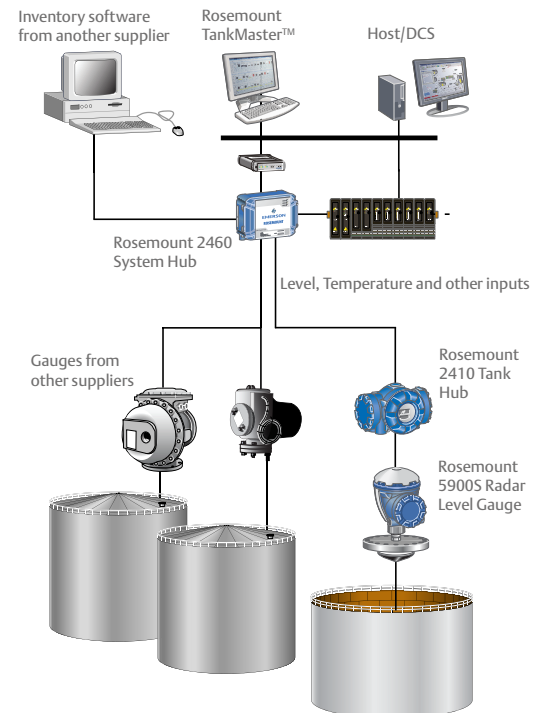
System hubs are often installed in Emerson supplied ready-made tank gauging cabinets.

Install one or more Rosemount 2460 System Hubs with multiple field and host communication ports in your existing tank gauging system. It is the first step to increase your tank plant efficiency by adding innovative bulk liquid measurement technology.

- Start replacing outdated devices with modern Rosemount tank gauging components step by step and with minimal disturbances
- Get real time tank inventory data in your existing HMI/DCS or in Rosemount TankMaster
- Increase reliability of critical communication by using redundant system hubs



Rosemount™ 2460 System Hub.



Your tank gauging system can be upgraded gradually as your budget and project timelines allow.



# How it Works

The Rosemount 2460 System Hub is a data concentrator that continuously polls tank data from level, pressure, and temperature devices.

Whenever requested, the hub immediately sends data from a group of maximum 64 tanks to a TankMaster PC, or a host computer.

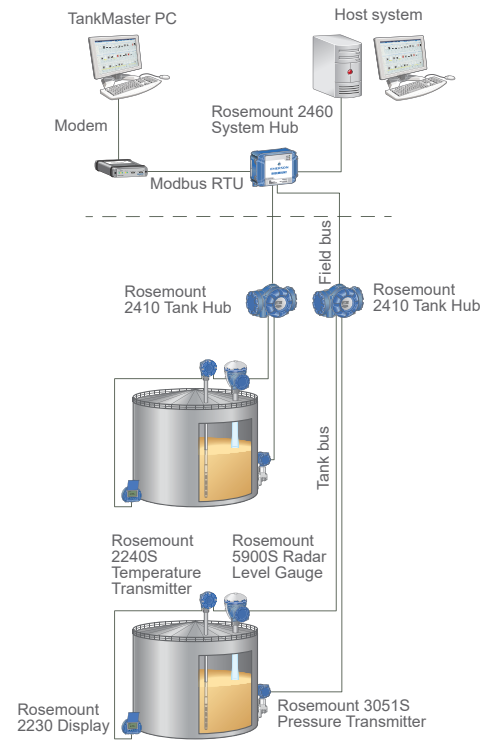
The system hub supports connection of field devices and control room equipment from other suppliers. Also earlier versions of tank gauging instruments from Emerson, such as TankRadar Pro and Rex gauges, can be connected.

## Supported communication

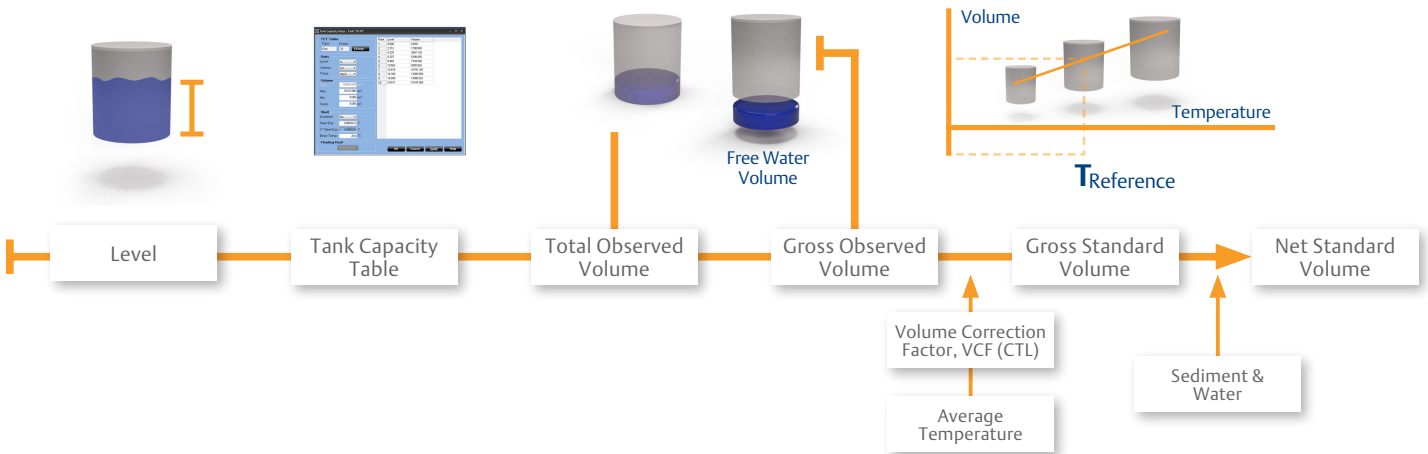
- Modbus® via TRL2, RS232 and RS485
- Other supplier's protocols/communication: Enraf®, GPE, L&J, Sakura, Tokyo Keiso (TIC), Varec®, Whessoe
- Ethernet Modbus TCP

## Inventory calculations

The system hub can perform real time inventory calculations including gross and net volumes as well as mass, according to current API tables (6, 54, 24, 60 A-D and ASTM D4311).



The "end game" is a cutting edge technology tank gauging system with SIL certified overfill prevention.



## User defined Modbus mapping adds further connectivity

The Rosemount 2460 can be integrated into most existing hosts as it can be configured to match the value mapping of the current system. This gives flexibility when replacing legacy devices as the hub can match the old device without configuring the host system.

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