

TANKS-BULK FLAMMABLE LIQUIDS TANKS MANAGEMENT SOLUTIONS

“I CAN IMPLEMENT EMERSON’S TANK MANAGEMENT SOLUTIONS
INCREMENTALLY AND WITH SOLID ROIS”

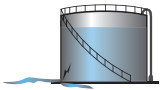


WHAT ARE OUR CUSTOMERS' CHALLENGES?



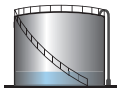
MANUAL ERRORS

Inaccurate manual measurements and recordings trigger time-consuming and expensive third-party inspections, as well as demurrage charges.



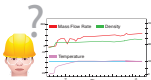
HYDROCARBON LEAKS

Corrosion or mechanical stress causes tank walls to leak hydrocarbon product, resulting in toxic releases, fires, and other hazardous incidents.



UNDERUTILIZED TANK SPACE

When volume, density, and other properties are unclear, tank space is wasted.



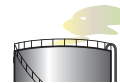
POOR COMMUNICATION

Key personnel rely on different databases for the same information at the same time, impairing product movement and overall operations.



UNSCHEDULED DOWNTIME

Stuck valves, product movement errors, and other equipment problems can lead to slowdowns, shutdowns, missed production schedules, safety risks, maintenance costs, and reportable incidents.



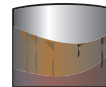
HYDROCARBON VAPOR RELEASES

Vapor recovery unit failures and valve leaks cause toxic releases, fires, reportable incidents, and fines.



OVERFILLS

Measurement errors and inadequate prevention systems lead to overfills and related safety risks, environmental fines, cleanup costs, and public relations expenses.



PRODUCT DEGRADATION

With inadequate blanketing, oxidation creates safety risks and reduces product quality.

WOULDN'T IT BE BETTER IF YOU COULD INCREASE TANK AND PROCESS VISIBILITY AND...

Maximize storage in lines and tanks

Account for 100% of the volume in your lines and tanks

Avoid losses

Detect leaks early

Remove people from the tops of tanks

Reduce equipment downtime

OUR CUSTOMERS REALIZE THE VALUE BY AVOIDING...

Product Loss
Product Contamination
Product Degradation

\$4.5M
in avoidable
incident costs



TANK MANAGEMENT SOLUTIONS GUIDE

Emerson maintains a complete portfolio of solutions that can address your tanks and terminals needs and challenges.

The numbers below correspond to the those in the diagram.

1 CORROSION MONITORING

Roxar corrosion monitoring

2 FIRE & GAS DETECTION

Net Safety combustible gas sensors
Net Safety optical flame detectors
Net Safety toxic gas sensors

3 FLAME & DETONATION PREVENTION

Enardo detonation arrestors
Enardo flame arrestors

4 BLANKETING GAS & VAPOR FLOW MONITORING

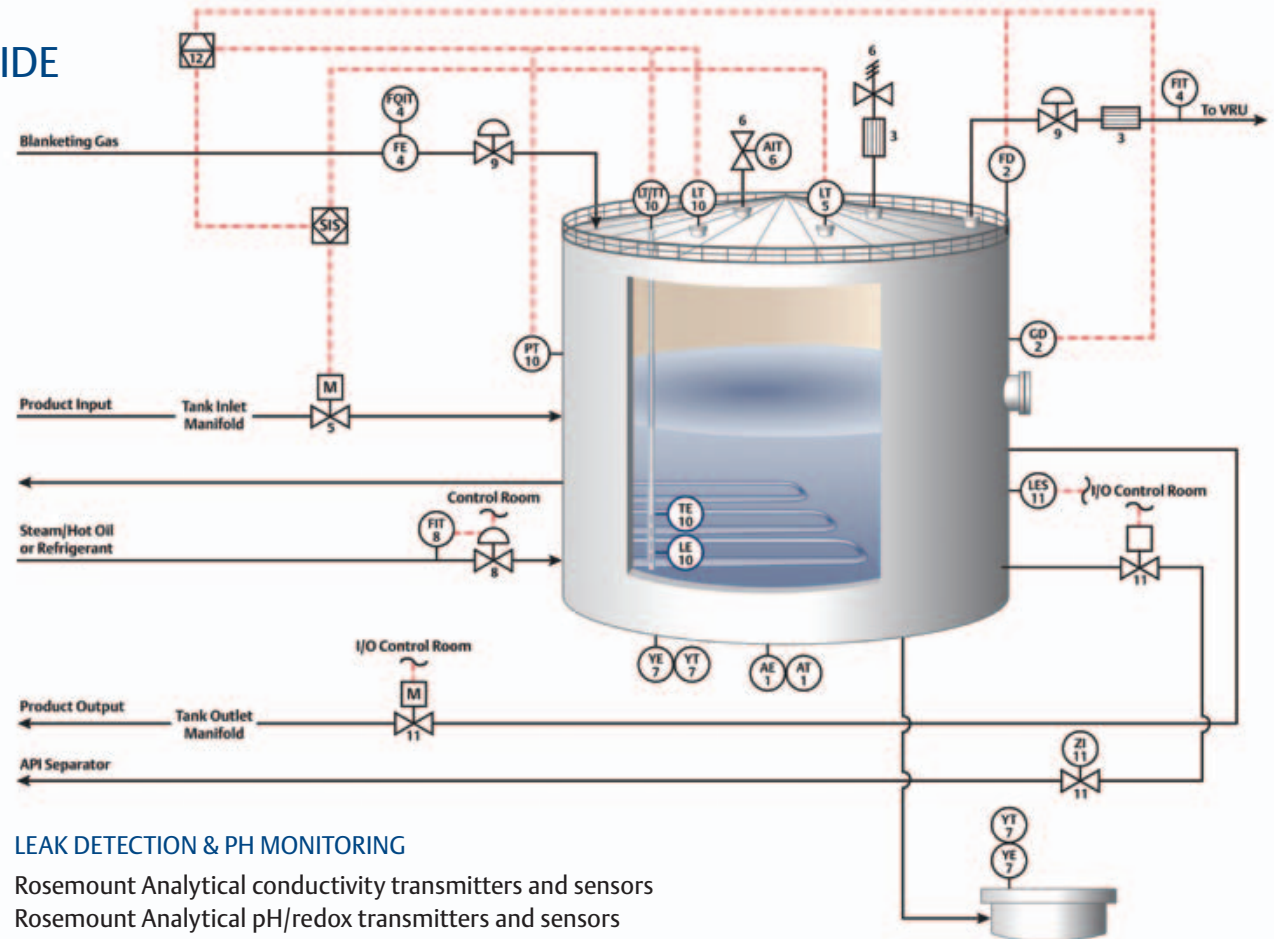
Micro Motion Coriolis flowmeters
Rosemount multivariable flowmeters
Rosemount differential pressure flowmeters

5 OVERFILL PROTECTION

Bettis actuators
DeltaV SIS and digital automation systems
Fisher digital valve controllers
Fisher valves
Rosemount Tank Gauging radar level gauges
Rosemount vibrating fork liquid level switches

6 OVERPRESSURE/VACUUM CONTROL

Enardo emergency pressure/vacuum relief vents
Enardo pressure and vacuum relief valves
Rosemount acoustic indicator transmitters



7 LEAK DETECTION & PH MONITORING

Rosemount Analytical conductivity transmitters and sensors
Rosemount Analytical pH/redox transmitters and sensors
Rosemount transmitters with TraceTek sensor

8 STEAM FLOW MONITORING/HEATING AND COOLING

Fisher valves
Rosemount differential pressure flowmeters
Rosemount vortex flowmeters

9 TANK BLANKETING & VAPOR RECOVERY

Fisher vapor recovery regulators
Fisher tank blanketing regulators
Emerson Climate Technologies vapor recovery unit

10 TANK GAUGING SYSTEM

Rosemount pressure transmitters
Rosemount Tank Gauging level gauges and transmitters
Rosemount Tank Gauging temperature transmitters
Rosemount Tank Gauging temperature and water-level sensors

11 WATER DRAIN & VALVE MONITORING

Fisher valves and wireless position monitors
Rosemount vibrating fork liquid level switches
Virgo valves and controls

12 INVENTORY & PROCESS MONITORING

Syncade
DeltaV
TankMaster

PARTNER WITH EMERSON TO STORE MORE AND MOVE MORE, SAFER AND FASTER

“RESULTS SHOW FASTER ORDER HANDLING AND AN EFFICIENCY IMPROVEMENT OF UP TO 30%. WE ALSO BELIEVE THAT SAFETY HAS IMPROVED.”

-Vopak

“WE SHORTENED TRUCK TURNAROUND TIME TO LESS THAN TWO HOURS, AND DECREASE OPERATING COST BY APPROXIMATELY 20%.”

-Shell Terminals



Explore



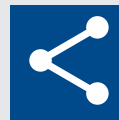
www.EmersonProcess.com/Terminals

Ask the EXPERT



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SHARE



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Emerson Process Management

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