

MCG 3905

WINGauge Inventory Management System

Terminal operators, bulk storage managers, compliance teams, and operations engineers running multi-tank facilities with mixed L&J and third-party gauges need an inventory platform that pre-integrates with Tankway instead of charging another six-figure SCADA project to do it. The MCG 3905 WINGauge Inventory Management System is a Windows-based, SQL-backed platform that scales to 1,000 tanks across 32 field loops, captures level, temperature, BS&W, volume, and alarm data, and delivers visualization, historical trending, dynamic reports, and audit-ready compliance output. Customizable displays and multi-protocol connectivity let each site tailor the system to operational and regulatory needs. Unlike generic inventory software, WINGauge ships with native L&J Tankway integration, redundant server options, and secure communications — eliminating gateway licensing fees and the integration cycle of a third-party historian deployment.

Key Features

Large-Scale Capacity

Supports up to 1,000 tanks across 32 loops, enabling centralized inventory management for large terminals and multi-site storage facilities.

Multi-Vendor Integration

Communicates with L&J and non-L&J gauges using multiple protocols, protecting existing hardware investments while simplifying system consolidation.

Audit-Ready Data Storage

SQL-based historical databases retain level, temperature, BS&W, volume, and alarm records for traceability, reporting, and regulatory compliance.

Customizable Operator Interfaces

Dynamic forms, reports, and SiteView graphics allow sites to tailor displays and workflows without modifying core system software.

High System Reliability

Redundant server configurations, diagnostics, and performance monitoring tools help maintain uptime and support proactive maintenance planning.

Flexible Connectivity

Supports serial and Ethernet communications, OPC, and Modbus TCP/RTU to integrate easily with control systems and enterprise platforms.



Typical Applications



TANK FARM OPERATIONS

Centralizes level, temperature, BS&W, and alarm monitoring across large tank farms with mixed gauge types and communication protocols.



TERMINALS AND REFINERIES

Provides unified inventory visibility for custody transfer, blending, and throughput monitoring in complex downstream facilities.



CHEMICAL STORAGE FACILITIES

Maintains accurate historical records and trending to support regulatory reporting, safety audits, and product accountability requirements.



BULK LIQUID STORAGE

Improves reconciliation accuracy by tracking volumes and movements across multiple tanks, reducing shrinkage and inventory discrepancies.



MULTI-SITE OPERATIONS

Aggregates data from multiple locations into a single system for enterprise-level monitoring and standardized reporting.



MODERNIZATION PROJECTS

Upgrades legacy tank gauging systems with advanced visualization and reporting without replacing existing field instrumentation.

Benefits



Revenue Protection

Accurate inventory calculations reduce product losses, reconciliation errors, and disputes related to custody-transfer measurements.



Operational Visibility

Live displays, historical trending, and graphical SiteView layouts give operators immediate insight into tank status and movement.



Regulatory Confidence

Comprehensive alarm histories and archived measurement data support compliance with environmental, safety, and audit requirements.



Reduced Manual Effort

Automated data collection, reporting, and scheduling minimize manual data entry and reduce operator workload.



System Resilience

Redundant architectures and diagnostics help maintain continuous operation, even during maintenance or hardware failures.



Scalable Architecture

Supports gradual expansion as tank counts and operational complexity grow, without major system redesign.



Technical Specifications & Key Features

Supports up to 1,000 tanks across up to 32 field loops
Multi-vendor, multi-protocol support including Tankway and Modbus
SQL-based historical data storage with trending and alarm history
Customizable GUI with dynamic form and report generators
SiteView graphical tank farm layouts
Multi-server, multi-client architecture with redundancy options
Connectivity via RS-485, Ethernet, OPC, Modbus TCP/RTU
Scheduled reporting and remote configuration capabilities

Dimensions

Typical System Layout



Model Number Selection

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Summary

With decades of experience in storage tank measurement and automation, the WINGauge system delivers trusted accuracy, scalability, and control. The MCG 3905 provides a comprehensive inventory management solution that supports real-time monitoring, historical analysis, and regulatory compliance across complex facilities. By choosing WINGauge, operators gain improved visibility, stronger data integrity, and confidence in protecting both product and operational performance over the long term.

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