

FACTORY AUTOMATION

OIL & GAS SOFTWARE SOLUTIONS

With Mitsubishi Electric Iconics Digital Solutions



- Real-Time Asset Management
- Scalable and Robust Data Logging
- Mission-Critical Production Monitoring
- IIoT in Oil and Gas Operations
- Advanced Mobile Capabilities
- Universal Connectors

REAL-TIME SUPERVISION FOR OPERATIONAL EXCELLENCE



Oil and gas production, transmission, and refinement involve constantly evaluating a variety of assets dispersed across vast areas. The ability for both operators and executives to monitor equipment condition, production, and efficiency drives continuous improvement across operations.

REAL-TIME ASSET MANAGEMENT

Integrate assets from different systems into a single hierarchical view with ISA-95 standardized asset classes that define the visualization, trending, fault analysis, and commanding associated with each asset. From the wellhead, to meters, to storage tanks and throughout the pipeline, the innovative Asset Navigator provides instant access to equipment.

- Quickly navigate assets by run, region, or system level
- Instantly visualize equipment status in real time
- Automatically receive Fault Detection and Diagnostics (FDD) alerts

SCALABLE & ROBUST DATA LOGGING

The high-performance Hyper Historian™ from Mitsubishi Electric Iconics Digital Solutions delivers continuous archiving of essential production data for real-time visualization, reporting, and trend replay. Analyze long-term historical data and compare it to ideal standards for maximum production. Connect to multiple data sources across your enterprise to instantly gather and log large volumes of data from an entire system.



Extensive visualization of all the key parameters by the GENESIS software system helps the drilling operator to prevent problems, drill more efficiently, and reduce drilling time, which translates into overall cost savings.



— Bohr Instrument Services

MISSION-CRITICAL PRODUCTION MONITORING

Well supervised production depends on real-time HMI and SCADA systems to deliver scalable mission-critical performance. Advanced graphics and alarm management integrates information from a wide variety of data sources. Establish scalable and flexible alarming and trending modules to maintain proper functionality throughout your wellsites. Redundant system architectures ensure data resiliency—even under the most critical conditions.

- Leverage redundancy with a distributed architecture
- Scale alarms, trends, and data historians
- Acknowledge alarms and alerts

RELIABLE FAULT DETECTION & DIAGNOSTICS

Continuously commission assets and receive recommendations for improvement using real-time FDD. Monitor compressor characteristics, identify faulty chemical injection processes, and receive alerts for abnormal performance. When a failure occurs, automated diagnostics evaluate sensor data, identify likely causes, and provide actionable guidance for service technicians. This systematic approach reduces Mean Time to Diagnose (MTTD) and helps lower maintenance costs.

- Access real-time monitoring and reporting
- Identify system faults and failures with FDD
- Reduce maintenance and determine probable cause

IIOT IN OIL & GAS OPERATIONS

GENESIS delivers secure, cloud-enabled communications infrastructure for the oil and gas industry. It publishes on-premises data to Microsoft Azure or third-party applications using secure protocols like AMQP and MQTT. MEIDS' visualization, historian, analytics, and mobile tools then subscribe to this data, providing operators with actionable intelligence from any device. GENESIS enables fully connected facilities that drive greater productivity.

ADVANCED MOBILE CAPABILITIES

Instantly assess KPIs for your entire wellsite from any mobile device through MobileHMI™. Access all of your data from anywhere with the reassurance that you are operating on an encrypted network. MobileHMI metrics give field managers and operators the power to remain highly productive from anywhere, while the responsive design technology scales all visuals within a system.

UNIVERSAL CONNECTORS

Configuration and integration with OPC UA is simplified with built-in support for native object oriented organization of data. Effortless network device discovery makes integration seamless and efficient. Information is collected, aggregated, and normalized from a wide variety of protocols and interfaces, including:

- OPC UA
- OPC
- SNMP
- Modbus
- Databases
- RESTful Services
- 3rd Party EFM Data Integration

SMART BENEFITS FOR OIL & GAS

- Reduce engineering and deployment costs
- Enhance system-wide visibility into operations
- Integrate field equipment with MES and IT data
- Deliver rich 2D and 3D visualization
- Ensure highest level of system security
- Protect critical data with redundant solutions
- Analyze and review real-time and historical data
- Effectively monitor widely dispersed assets



About Us

Mitsubishi Electric Iconics Digital Solutions (MEIDS), headquartered in Foxborough, Massachusetts, is a global leader in industrial automation, smart and sustainable buildings, and digitalization software. Our advanced HMI, SCADA, and Smart Building solutions enable businesses to visualize, monitor, and optimize their most critical assets and spaces. With installations in over 100 countries and adoption by more than 70% of Global 500 companies, we drive operational efficiency and continuous improvement across industrial manufacturing, infrastructure, and built environment sectors. Backed by cutting-edge technology and deep industry expertise, we deliver flexible, scalable, and high-performance software solutions. As a testament to our excellence, Mitsubishi Electric Iconics Digital Solutions has been recognized as a seven-time winner of the Microsoft Partner of the Year award.

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