SEGMIC ENGINEERING

Solution Empowered by Innovations

Solutions for Safe and Reliable Oil & Gas Automation

Oil & Gas Automation with PLC based Control

As a specialist in PLC-based control, Segmic delivers advanced control and monitoring systems for upstream, midstream and downstream operations. Our integrated approach combines proven controllers, hazardous-area instrumentation and SCADA software into scalable solutions — from a single wellhead skid to a complete terminal.

Our solutions are engineered for safety and long-term reliability, for new facilities and brownfield upgrades alike. With expertise in platforms such as Siemens, Allen-Bradley, Emerson and many more, we deliver tank-farm automation, pipeline monitoring, pump and compressor control, and predictive maintenance tailored to each site.

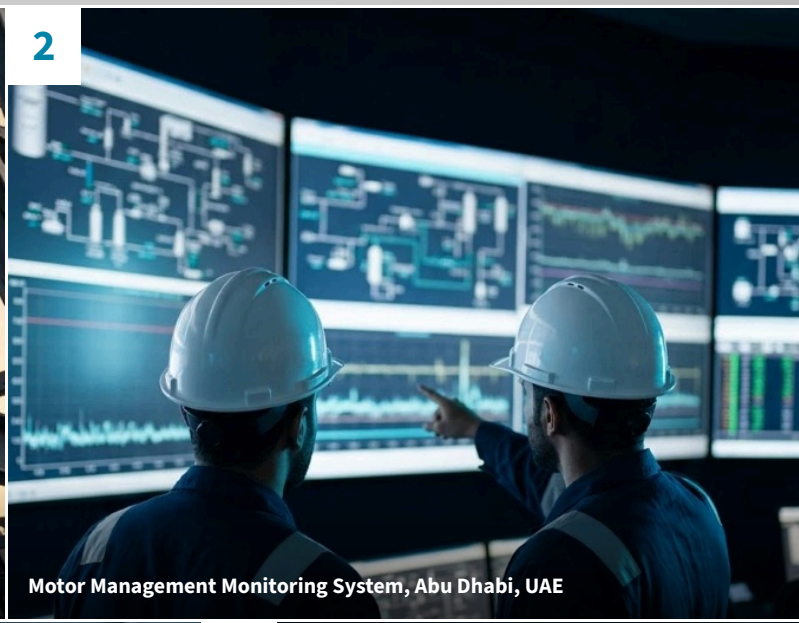
From oil terminals, tank farms and pipeline stations to drilling rigs, gas processing and fuel distribution, our systems improve uptime, product accountability and safety. Portable ATEX-certified panels and wireless HMIs extend monitoring to remote and hazardous locations.

We ensure seamless integration with field instruments and existing control systems, supporting protocols like Modbus, PROFINET, HART, Foundation Fieldbus, OPC UA, DNP3 and more. Additionally, we enable edge and cloud connectivity for remote monitoring and analytics.

Application areas for the Segmic control solution

1. Oil Terminals
2. Tank Farms
3. Pipeline Stations
4. Drilling Rigs
5. Gas Processing
6. Pumping Stations
7. Fuel Distribution
8. Offshore Platforms
9. Refinery Utilities

Top Drive Condition Monitoring System, Abu Dhabi, UAE



Motor Management Monitoring System, Abu Dhabi, UAE

Fuel Tank Monitoring System, Riyadh, Saudi Arabia

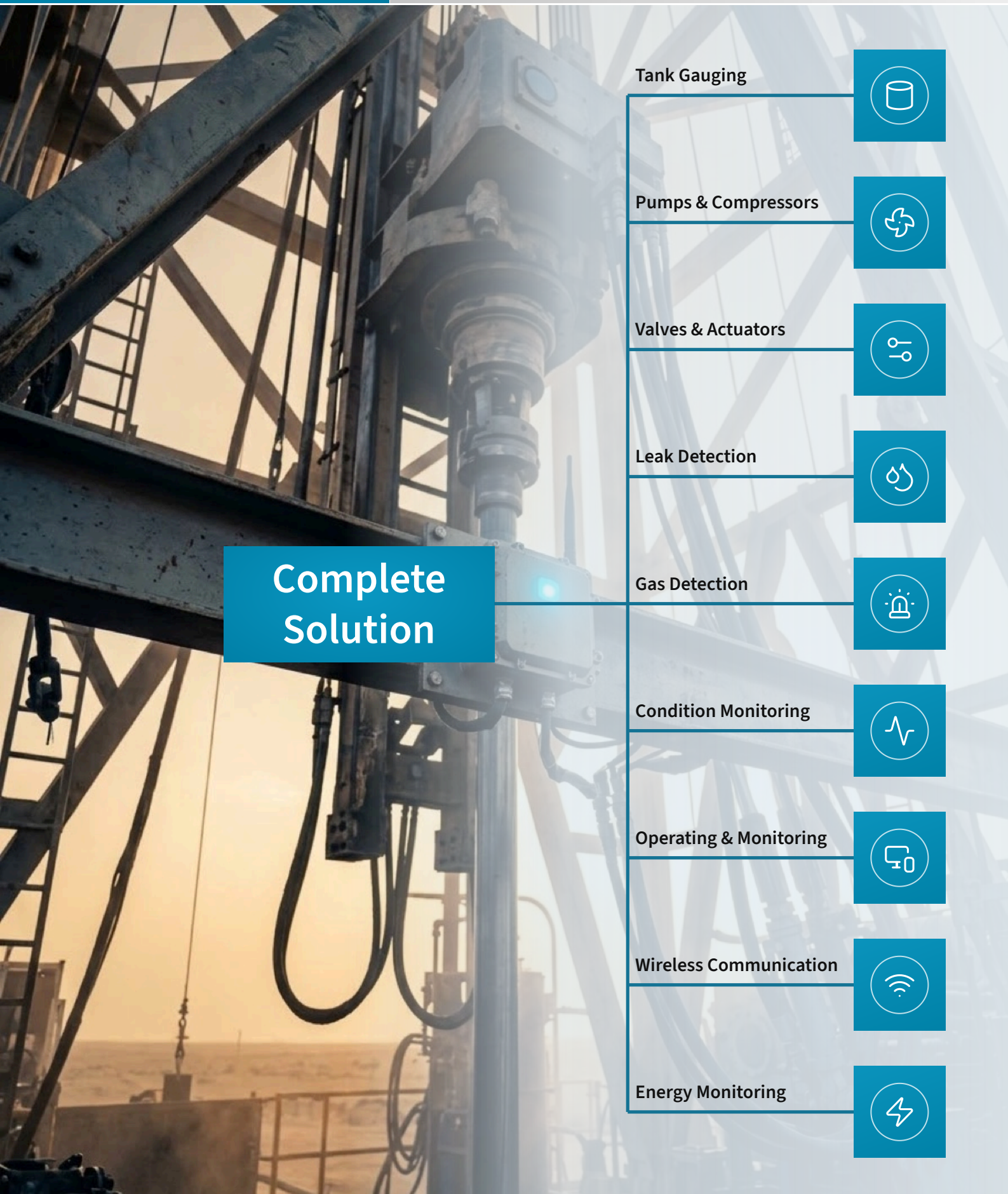
Oil Terminals

Pipeline Stations

From individual technical systems to a safe, connected complete solution

All technical systems integrated in one control system:

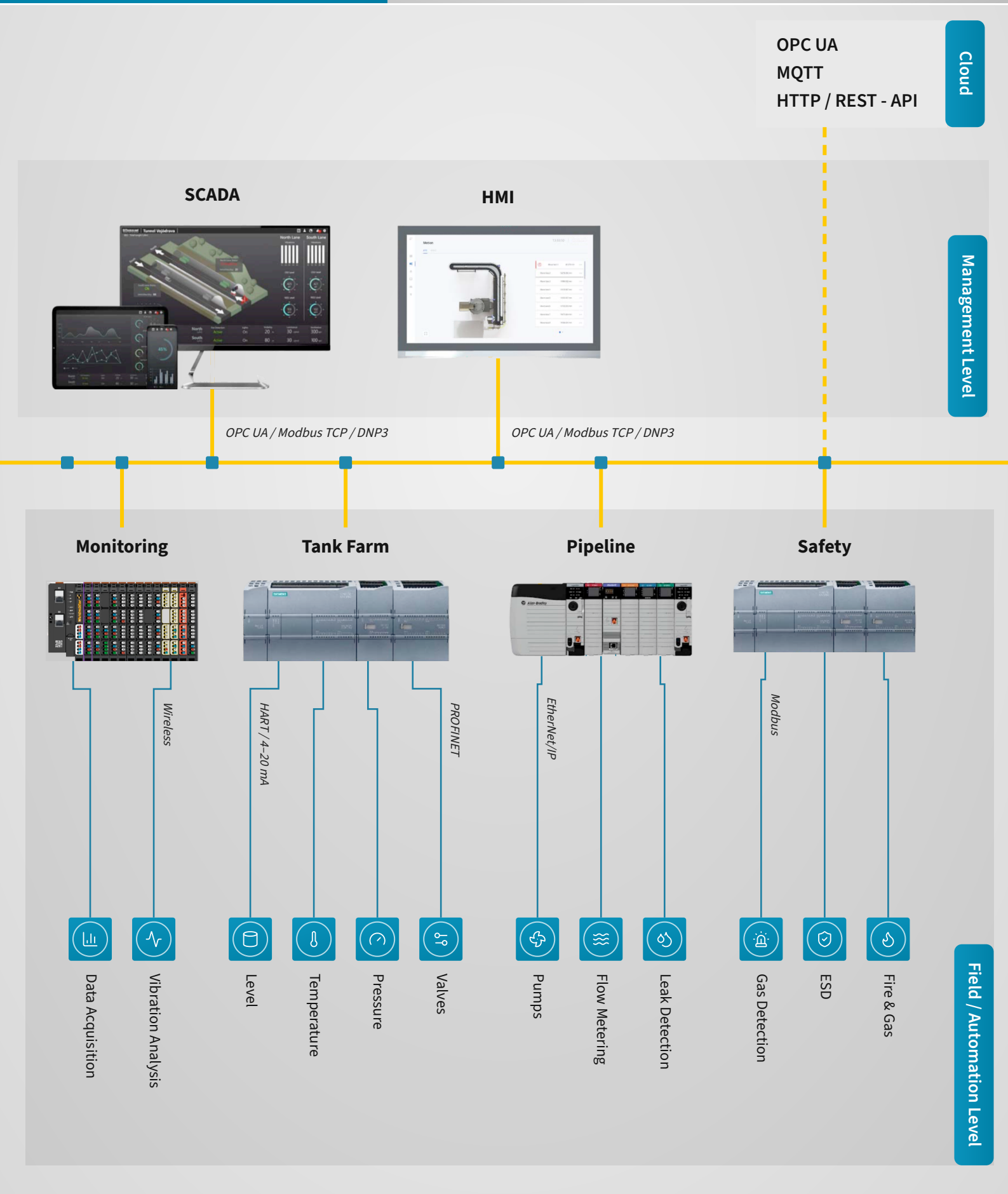
- Tank level, temperature and pressure monitoring
- Pump, compressor and valve control
- Pipeline leak and corrosion detection
- Vibration and condition monitoring
- Gas detection, ESD and alarm management
- Data acquisition and remote SCADA



All components for smart oil & gas automation

At Segmic Engineering, we automate even the most complex oil & gas facilities in a comprehensive, scalable, and future-ready manner. Our platforms integrate decentralized I/Os, hazardous-area instrumentation and third-party packages through advanced communication interfaces and fieldbuses.

This architecture keeps critical data close to the process and significantly reduces field cabling and marshalling — minimizing installation time, cost and risk while enabling remote monitoring of unmanned sites.



Website

Segmic
Engineering FZE

Office 1114, SIT
Tower, P.O. Box
342014