

GenesisMaxim vs. Custom Control Solutions: A Comparison for System Integrators



Traditional Custom Control Solutions

PROBLEM: Costly, overly complex schematics are required for system diagnosis and must be maintained.

PROBLEM: Custom-designed hardware and software require high-cost engineering and cause long lead times.

PROBLEM: OI/HMI has a dedicated program for limited types of control equipment, resulting in high replacement costs. Parts become obsolete or are difficult to source.

PROBLEM: Control panels have slow response times and minimal memory. Not ready for Industry 4.0 or IIOT.

PROBLEM: Time-consuming diagnostics require a loaded laptop with correct version, key, and cable to establish connection.

PROBLEM: OSHA lockout voltages reside in the same panel as the PLC and operator interface, requiring diagnostics to be performed in a locked OFF position.

PROBLEM: Noisy 120VAC and 24VDC derived from 480VAC powering high-current devices.

GenesisMaxim Monitoring and Control System

SOLUTION: No schematics required. Wired using an elegant coding language that enables fast setup. Simplified location, connection, and troubleshooting of any I/O.

SOLUTION: Standardized, universal control system is programmed with zero engineering costs and is ready to install in weeks.

SOLUTION: Standardized hardware and software, including computer, monitor, keyboard, and mouse, offer readily available replacement parts at up to 20% lower cost.

SOLUTION: SCADA PC-based operator interface has exponentially larger memory potential, runs significantly faster, and is IIOT-ready.

SOLUTION: Ladder key is onboard, and the program is configured to open the plc program with one click.

SOLUTION: OSHA lockout voltages and PLC/operator interface voltages are housed separately, allowing for live diagnostics.

SOLUTION: Dedicated 120VAC line runs separate from the three-phase for greater reliability with fewer parts.