

# 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.