

Comparison to Traditional Control Panels



19" touchscreen display



SIL E-stop

Traditional Control Panel

UAK1000 Monitoring and Control System

OSHA COMPLIANCE

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

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

SCHEMATICS COST

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

SOLUTION: Wired using an innovative coding system that enables fast setup. Simplifies location, connection, and troubleshooting of any I/O. **No schematics required.**

ENGINEERING

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

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

REPLACEMENT COSTS

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

SOLUTION: **Standardized** hardware and software, including computer, monitor, keyboard, and mouse, offer **low-cost replacements** from a variety of manufacturers.

SPEED/RESPONSE TIME

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

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

DIAGNOSTICS

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

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

NOISE

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

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

ERGONOMICS

PROBLEM: Wiring and diagnosing in poor ergonomic position with low light.

SOLUTION: **Comfortable, upright** wiring and diagnosing supported by a movable, magnetic **LED light**.

APPEARANCE/AESTHETICS

PROBLEM: Designs are outdated and unattractive.

SOLUTION: Sleek cabinet design delivers a **modern look** to the factory floor.