

GenesisMaxim

An Introduction for System Integrators



The **GenesisMaxim** Monitoring and Control System is a standardized manufacturing automation solution that provides centralized SCADA capabilities to virtually any manufacturing line or process. The system combines PLC and PC power with a single pre-configured software package that is ready to install right out of the box with no schematics and minimal engineering. The result is a modern automation solution for approximately half the cost of proprietary one-off systems.

The Efficiency of Standardization

All OEE DataWatch systems use standard hardware and software components and an internal configuration that are consistent from one unit to the next. This standardization streamlines the process of setting up, operating, and maintaining multiple units across the plant floor. It also relieves manufacturers of the burden of supporting a wide range of different control systems, technologies, and components.

Simplified Coding, No Schematics, Minimal Engineering

The elegant I/O identification language of the GENESIS *Maxim* enables fast setup and easily directs an operator from a device to its corresponding active line of code within the controls software. This simplifies the location, connection, and troubleshooting of any I/O.

OSHA Compliance & Safety Built In

All GENESIS *Maxim* software and controls are housed in a low-voltage compartment in the top of the cabinet, while a separate compartment at the bottom of the cabinet houses electrical components. This allows system integrators and operators to gain safe, easy access to controls for troubleshooting live automation without the need for personal protective equipment or lockout/tagout. Meanwhile, the electrical compartment remains locked and requires system shutdown and lockout/tagout for entry. This design complies with OSHA requirements for operational safety.

Safe, Secure Data Access

The PC component of the GENESIS *Maxim* displays process data screens, logs and manages data, and securely delivers process information to authorized personnel from any location via an internet-ready device. The PC is equipped with two (2) ethernet cards and a dedicated IP address that limits communication to one-way, out-only data streaming, so process data is secure.

Remote Troubleshooting

The cyber-secure internet communication of the GENESIS *Maxim* can allow system integrators, operators, and OEE Datawatch support personnel to remotely troubleshoot and service the system from anywhere with an internet-enabled device. This capability minimizes system downtime and gets production up and running in a fraction of the time required by traditional automation systems that are burdened with proprietary components and require specialized expertise for maintenance and repair.

Complete Start-to-Finish Support

OEE Datawatch supports system integrators from the initial quote and programming through installation and automation on the factory floor. Support includes free access to OEE's growing library of online training tutorials that are designed to place system integrators and operators in complete control of the automation system. OEE engineers are also available after delivery to assist with unit setup, maintenance, and troubleshooting.

Specifications:

- PLC: Siemens S71200 Series (Allen-Bradley or other upon request)
- PC: I7 processor with SSD with 19" touchscreen monitor
- OS: Windows 10
- Siemens Portal Software (Programming license included)
- SCADA: AVEVA (Wonderware) InduSoft Web Studio (Runtime license included)
- 32 inputs/32 outputs, 8 analog inputs, 4 analog outputs and 4 high-speed counter inputs
- Remote 40" HDMI monitor for ANDON data display - 25' cable included
- Manual operating data screen and OEE dashboard with trending included
- SIL 3 E-stop
- Wireless keyboard and mouse
- Wi-Fi enabled
- Solid-state fuses (programmable 1 to 10 amps)
- One-year warranty



40" display and a 19" touchscreen display

Features:

- Movable interior light strip provides handy light source to clearly view all areas inside the cabinet
- Convenient interior power strip with surge protection safeguards PC operations
- Fan with temperature sensor monitors and dissipates heat in lower electrical compartment
- Industrial wheels allow cabinet to easily roll onto the factory floor to desired location
- Wheels can be replaced with legs that can be bolted to the floor for permanent placement
- Ergonomic cabinet height for added comfort, ease of use
- Shelf for keyboard and mouse



19" touchscreen display



SIL E-stop



Mouse and keyboard shelf