Logix® Control Panel Axiom™ II Hardware

The Logix Axiom™ II distributed processing hardware platform ensures system reliability, affords lower installation costs, and accommodates future additions easily.

The Logix control system features an industrial-grade controller specifically manufactured for demanding real-time process control applications.

Off-the-shelf component construction means you're assured of replacement parts availability from multiple vendors.

Functionality, reliability, cost-effectiveness and long service life make Logix the logical choice.

Flexible, Modular Design

The Logix® Control System is based on a modular approach, making change simple and logical. As your plant grows larger, simply add Logix control modules to meet your increased control needs. An added module could be in the form of another control panel, or additional processing capacity in an existing Logix control panel. The modules integrate easily and seamlessly into your control configuration.

The Logix Control System is available in configurations to address your plant's specific control challenges, ranging from controlling single equipment items (e.g., screw compressors, condensers, evaporators) to facility-wide integrated control.

Standard Features

Widely available, field-tested, industry-proven hardware:

The Logix Control Panel Axiom™ II hardware has been field-tested in harsh, electrically "noisy" environments to ensure reliability in the most adverse industrial conditions. Our PC-104 bus-compliant microprocessor hardware components are widely available and manufactured by numerous vendors. Logix Control Panels include UL Type 4 cabinets suitable for wash-down environments, and are UL listed for safety and code compliance.

Control Panel Specifications

Communication Devices:

• Up to six high-speed optically-isolated communications ports for multi-point, error-corrected data transfer to multiple control panels, equipment microprocessors and personal computers

• High-speed Ethernet network supports world-wide connectivity

• Supports high-speed binary data transfer to remote computer systems

• Optional Autodialer with voice annunciation paging and Touchtone™ telephone interaction

• Binary error-correction communication protocol ensures rapid, reliable, and exact microcontroller data transfer in electrically "noisy" industrial environments

Self-Diagnosis:

•"Watch Dog" timer and power monitor detects power loss and control panel malfunctions and forces outputs into a safe condition

•"Self Test" software routines periodically check panel integrity and take corrective measures

Memory Configuration:

• Up to 1.5 megabytes of ten-year, battery-backed configuration, storage and data memory

• Up to 8 gigabytes of permanent program and fixed data memory

Digital Inputs and Outputs:

• Up to 64 digital inputs or outputs in any combination

• Each input-output is individually fused, optically isolated and phase independent

• Status LED indicator shows individual input/output module's on/off state

• Wide range of AC and DC voltage modules available to meet any system requirements

• Field serviceable modules

Analog Inputs:

• Up to 64 industrially-hardened fault tolerant analog inputs

• Wide variety of input voltage and current ranges

• 12-bit (0.025%) high input accuracy

• Fast conversion rate; each channel sampled at least ten times per second

• Digital filtering of unwanted electrical noise and interference

Analog Outputs:

• Up to 48 industrially-hardened analog outputs

• Isolated 4-20 mA or 0-10 volt output range meet a wide range of control requirements

• 0.025% high output accuracy insures precise control