Custom Engineered Control Panels

- Experienced Control Panel Design Services
- State-Of-The-Art Machine Manufacturing Tools
- Quality Fabrication of Panels & Sub-Assemblies
- High Volume Production Capability
- Comprehensive Panel Testing
- Support Services for Equipment Manufacturers

- Agriculture
- Automotive
- Chemicals
- Data Centers
- Energy Management
- Food and Beverage
- Gas, Oil and Biofuels
- Government/DOD & DOE
- Industrial Utilities
- Life Sciences
- Material Handling
- Manufacturing
- Mining
- Packaging
- Power Generation
- Pulp and Paper
- Water/Wastewater
Since 1981 Wunderlich-Malec has provided control panel customers with valued panel engineering services and quality custom control panels that meet their application requirements. Our knowledgeable engineers and technicians provide our customers innovative panel and electrical solutions built to meet the most stringent customer design criteria including control panels that meet UL 508A, UL 689A and UL 698 certification.

Our modern and highly automated lean manufacturing processes include state-of-the-art machines, software tools and committed technicians that provide clients engineered sub-assemblies and control panels of the highest quality, delivered on time with the best value.

Wunderlich-Malec uses advanced technology and tools to build control panels that provide clients:

- Quality with precise and repeatable mounting panel cuts and openings
- Reduced labor resulting in cost savings
- Shorter fabrication schedules
- Accurate bills of materials from integrated Software Systems

Our facilities, automated equipment and personnel resources will meet our customers most demanding production quantities. Our engineers collaborate with our customer to ensure their design integrates with Wunderlich-Malec manufacturing to deliver quality at high volumes.

Wunderlich-Malec provides sub-assemblies to Original Equipment Manufacturers that integrate seamlessly into OEM products on just-in-time schedules.

Wunderlich-Malec utilizes a Quality Assurance program that builds quality into every product. Each panel and sub-assembly is manufactured in accordance with pre-approved documentation. A quality check is performed and documented at each step of the process, assuring the final product meets customer specifications and complies with applicable standards.

Our Professional Engineers can provide engineering services associated with electrical systems and panel designs from any of our 36 locations across the USA.
Wunderlich-Malec can provide a detailed design for custom panels that meet the functional requirements provided by the customer. The design process includes: device selection, layout, wiring details, Heat/FLA/SCCR calculations, and any testing protocols required. The final design achieves the functional requirements of the customer. We specialize in the design and fabrication of:

- PLC Control Panels
- Motor Control Center Modifications
- Power Distribution (Up To 1kV / 1000A)
- Panels Located in Hazardous Environments

**Value Engineering**
Customers that have finished design details for their panels appreciate Wunderlich-Malec’s Value Engineering service provided with our production quality process. Cost, schedule, and performance improvements may be achieved with our Value Engineering services.

Our complete electronic documentation package, including inspection reports and test results provided with our panels, assist customers with field testing, maintenance or future modifications.

*We can provide circuit breaker coordination and Arc Flash studies that meet NEC requirements. We also offer Power Quality and Thermography services.*

**Panel Manufacturing and Testing**
Wunderlich-Malec fabricates control panels in our modern, advanced manufacturing shop in Eden Prairie, Minnesota. We provide integrated control panels with complete electrical systems wired and tested. All control panels are fabricated in accordance with our quality and testing procedures defined in our Quality Production Manual. Customized for the specific requirements of each panel, the Quality Production Manual includes:

- The production process and organization checklist
- Panel construction/test punch list
- Testing sign-off check sheets, including:
  - Equipment inspection
  - I/O check of all wiring
  - Power up sequence
  - Functionality of all devices
  - Panel labeling
  - Shipment photographs

**Local Field Service**
Wunderlich-Malec provides customers local site service for all control panels from 36 local offices.
Wunderlich-Malec provides customers with value engineering, quality system integration, and innovative panel and control house solutions.

As an experienced engineering company with offices throughout the United States, we are uniquely qualified to meet our customers’ most demanding requirements, including their sustainability goals.

We deliver panels, systems and value-engineering services that lower costs, improve quality and accelerate project schedules.

With over 400 experienced professionals, our team is one of the largest and most well-established engineering, system integration and process automation providers in North America.

**Certifications**

- ETAP – Systems Integrator
- GE – Premier Solution Provider
- Honeywell – Diamond System Integrator
- ICONICS – Gold Level Certified System Integrator
- Inductive Automation – Premier Integrator
- Microsoft – Certified Partner
- OSIsoft – OSIsoft PI, Solution Partner
- Rockwell – Solution Partner
- Schneider Electric – Certified Alliance Partner
- Siemens – Solutions Partner/Smart Grid Solutions Partner
- Tatsoft – Partner
- Wonderware – Endorsed System Integrator
- Yokogawa – Systems Integrator

**System Experience**

- ABB Bailey Inf90/800xA
- Emerson DeltaV/Batch
- GE Series 9030/9070/PAC Systems RX1, RX3i, RX7i
- GE-IP Proface HMI/SCADA – iFIX, Cimplicity, Historian, WorkFlow, Portal
- Honeywell Experion LX/PKS, HC900/MasterLogic
- ICONICS Genesis 32 & 64/Hyper Historian/BizViz
- Microsoft SQL Server
- Modicon 984/Quantum/M340
- Novatech D3
- OSIsoft PI
- Rockwell 2/3/5/SLC/ControlLogix/MicroLogix/GuardLogix/FlexLogix/CompactLogix
- Rockwell FTView/Panelview/FactoryView/PlantPAX
- AssetCentre, Historian, and VantagePoint
- Schneider Electric – Plantstruxure
- Siemens S5/S7/PCS7/TI545, 555, 565/APACS/APT/TISOFT/APAC+
- Wonderware InTouch/InBatch/InSQL, AVEVA System Platform
- Yokogawa CENTUM, STARDOM

**Centers of Excellence**

- Albuquerque, NM
- Atlanta, GA
- Biddeford, ME
- Boston, MA
- Chicago, IL
- Dallas, TX
- Eden Prairie, MN
- Golden, CO
- Green Bay, WI
- Hampton, NH
- Houston, TX
- Huntington Beach, CA
- Las Vegas, NV
- Longmont, CO
- Los Angeles, CA
- Loveland, CO
- Malta, NY
- Nashville, TN
- New Albany, OH
- Orlando, FL
- Phoenix, AZ
- Portland, OR
- Sacramento, CA
- St. Louis, MO
- San Francisco, CA
- Tampa, FL
- Williamsburg, VA
- Wilmington, NC
- Winslow, ME
- Winston-Salem, NC