

Custom Solutions for Aerospace Electronics

Design, prototyping, and production of automation and communication electronic components for aerospace in Akron, OH since 2000.

Specializing in providing electronic solutions to Tier 2 Aerospace Electro-Mechanical OEMs.



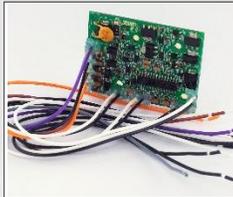
Western Reserve Controls has provided electronic products and solutions to our customers in harsh industrial and aerospace applications. WRC combines concept, design and layout, prototyping, testing, production, sub-system assembly and certification to deliver the appropriate solution, employing rugged I/O and embedded systems expertise.

WRC has expertise in several different varieties of controllers for motors, pumps and water tank heaters, fuel tank switches, and communication interfaces. Some of our solutions include converting analog and pneumatic controls to digital, which results in a reliable, faster, lighter and more cost-effective system.

DESIGN



PROTOTYPE



MANUFACTURE



TECHNOLOGIES

Communications

- Serial – RS-232, RS-485, RS-422, Modbus
- Fiber – multi-mode, single-mode
- CAN bus and CAN protocols – DeviceNet™, J1939 and CANopen, Custom protocols
- Ethernet – General Ethernet, EtherNet/IP™, Modbus/TCP

Discrete I/O and Solid-State Relays

- Industrially hardened input/output circuits
- Power electronics and power switching
- Low-power sensor/actuator interfaces
- 4000V isolation and filtering
- Brushed and brushless motor control

Analog Signal Conditioning

- Filtering and isolation
- Wide range of analog I/O and sensor inputs
 - mA, mV, and V
 - Potentiometers
 - RTD, T/C
 - Strain gage

Intrinsic Safety

- CAN bus barrier
- IS I²C sensor nodes

CUSTOM-ENGINEERED SOLUTIONS

- Product life cycle support and obsolescence management
- Specification creation, PCB/hardware design and layout
- Rapid prototype development
- DO-160 expertise
- Six-Segment State Gate Product Development Process
- Embedded Firmware/software development (Assembly, C, C++, VB, etc.)
- Electro-mechanical design (2D, 3D)
- RoHS conversion and compliance, CE/UL compliance

MANUFACTURING SERVICES

- High-mix, low-volume SMT and through-hole manufacturing facility
- Conformal coating available
- Contract manufacturing available
- ISO9000 process



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