

## Circuit Check Partners with Aerospace Company to Develop Custom Test Systems

### Collaboratively Developing a Design Plan

Often a customer will come to Circuit Check without test specifications or a design plan. When a renowned aerospace company approached Circuit Check to assist with the creation of their test specs, Circuit Check partnered with the customer to complete the necessary requirements. Circuit Check worked with the customer early in their design process to ensure all design aspects were considered. We started with an intended use specification which defines high level system intended uses and reflects any customer-imposed implementation requirements including safety, ergonomics, agency requirements, corporate build guidelines, data logging, and deployment environmental parameters.



### Circuit Check Overview

- **Over 40 years of Designing & Manufacturing Electronic Test Solutions**
- **Unparalleled Quality**
- **Experienced Test Engineers**
- **Global Support**

Next the test requirements specification was created. This defines detailed test requirements for a single product part number. The TRS defines the testing sequence, methods, measurement limits, and other similar requirements.

Finally, a design plan with all documentation was created and established the design concept for the test system including instrumentation, fixture interface, and system footprint.

### Concurrent Engineering throughout the Test System Build Process

As Circuit Check continued to partner with the Company, we worked side by side with the design engineers. Adjustments and changes were made throughout the build process. In tandem with Circuit Check's test development, the customer completed the final designs.

### Unique Test Solutions

This functional tester provides full parametric testing with over 100 testing features. Circuit Check and the customer collaboratively wrote the software in LabView. The custom graphical user interface included unique features such as an automatic testing and debugging mode. Circuit Check also provided all the necessary documentation.

Working side by side to create the proper testing solution allowed the customer to be fully integrated and to begin immediate testing.

