

## Measurement Systems



- Minimal Load on Test & Engineering Resources
- Rapid Implementation
- Experienced Test Design
- Full Documentation
- Extensible to Test Other Boards
- All of the Benefits of the Automatiq TestSystem & TestWare

## Circuit-Traq PRO Turnkey Systems

In addition to off-the-shelf Circuit-Traq PRO Test Systems, Automatiq can provide custom turnkey test systems for a single board or a collection of boards.



The turnkey system can be as simple as a single custom TestFixture and associated TestScript.

It can also be as complete as a desktop rack with PC, TestStation, additional instruments, and a series of TestFixtures and TestScripts.

### Turnkey Benefits

Automatiq has extensive experience in developing test systems. This means that the turnkey test system can be developed with little or no loading of the customer engineers.

With scarce engineering resources, this can make automatic functional testing possible when it would not be feasible to develop in-house because of lack of resources.

When starting with the Automatiq TestSystem, a turnkey TestFixture can get the process started quickly. The design and extensive documentation can then provide a design guide for subsequent in-house development of additional TestFixtures. The extensive documentation makes the test system maintainable and allows easy duplication if necessary.

The extensive experience of Automatiq translates to a high quality functional test system delivered on time at a fixed price.

### Circuit-Traq PRO Benefits

Of course, a turnkey system provides all the benefits of the Circuit-Traq PRO on which it is built.

Automatic functional testing reduces test time and improves the test quality.

Test results are automatically retained in the History Database and can be reported or exported for further analysis. Additional boards can be tested by providing a new TestFixture and TestScript which can be developed in-house or as a turnkey system from Automatiq.

The cost of developing a functional test is minimized because the built-in features of the Circuit-Traq PRO and TestWare don't have to be redeveloped.

The built-in calibration and verification system insures that the test system is working properly.

## Measurement Systems

### Getting Started

Automatiq will need some basic information to get started with a quote:

- Test procedure
- Schematic & Parts List
- Board operational specifications if available
- Gerber Files for the Board
- Board Samples

In addition, the scope of the project needs to be defined (boards involved, connectors or bed-of-nails, additional instruments, full rack or simple desktop, etc.). With that information, Automatiq can provide a fixed price quote and estimated delivery time.

Typically, the project is completed in two phases. First the system and fixture(s) are designed and submitted to the customer for review. Then the system is built and the TestScripts are developed. The final system is delivered, installed, and customer personnel trained.

### Design Phase

In the Design Phase, Automatiq will analyze the Test Procedure and Schematic and develop a test strategy. A complete design package will be developed including:

- System Block Diagram
- System Schematics
- System Parts List
- Operator Manual
- TestFixture Schematics
- TestFixture Parts List
- TestFixture Mechanicals
- TestFixture Drill List
- TestFixture Software Design Description

Finally, the entire design package (paper copy and CDROM) will be submitted to the customer for review and approval

### Implementation Phase

After approval of the Design Phase (with any corrections necessary), the Implementation Phase begins. During the Implementation Phase, Automatiq will perform the following:

- Purchase materials
- Fabricate parts
- Assemble hardware
- Wire fixtures
- Develop & Test TestScript
- Update Documentation
- Deliver and Install the system
- Train the Operators

A final documentation package (paper copy and CDROM) will be provided. The documentation will be adequate for a test technician to build additional units

### Additional Information

.For additional information, see the datasheets for *Circuit-Traq PRO* and *TestWare* that are available from the Automatiq web site [www.AutomatiqSystems.com](http://www.AutomatiqSystems.com).