

# TEST SYSTEMS

**Electrical  
Measurement  
Testing**



**ATJ**<sup>TM</sup>  
AUTOMATION

# Electrical Measurement Testing

## Description

Our engineers and software developers use advanced design tools and extensive resources in order to develop custom instrumentation and PC-based data acquisition systems.

Our Designers and Engineers are trained to be able to solve the most demanding test applications. We will work with our customers through all aspects of the design process in order to ensure that the resulting equipment meets or exceeds expectations. If your application involves some form of instrumentation and/or data acquisition then we can be of service to you.

### Typical Applications:

#### Automotive

- Instrument panel/cockpit/clusters
- Airbag
- Center/overhead console
- Door modules
- ABS, Traction Control, Airbag and other safety critical devices
- Remote Keyless Entry
- Communication Buses: CAN, J1850, UART, LIN etc...

#### Medical applications

- Blood glucose meter function test
- EEPROM programmer
- Heart catheter function test

#### Consumer products application

- Smartphone/PDA function and vision test
- Hydrogen fuel cell generator function test

## Specifications

- Single- source 100% custom test solutions from standard designs.
- Full functional EOL or in-process verification/calibration/durability.
- Integrated birth history/traceability/configuration/SPC archiving capabilities.
- Optimize test cycle time with minimum fixtures to maximize ROI.

## Our Expertise Includes

- Voltage, Current, Resistance, Capacitance.
- High - voltage isolation test (Hipot, Surge).
- Vision inspection.
- Full electrical and electronic functional (Contact bounce, resistance: Micro-ohm to Mega-ohm, characteristic monitoring: PWM, RMS, peak, rise time, duty cycle etc..).
- Design of Test equipment for production line testing of electrical components (UL certified).
- Communicating to automotive bus diagnostics (CAN, J1850, Class 2, SCP, K-Line etc..) and functional check of automotive products. (Instrument Panel, ABS controller, turbocharger, fuel pumps etc...)
- Custom electrical test connectors.



Contact ATS directly for application review or for product specific applications beyond the scope of this document.



Tel: 1 (905)-850-8600 Fax: 1 (905)-850-9336  
Send e-mail to: [info@atsautomation.com](mailto:info@atsautomation.com)  
or visit our web site at: [www.atsautomation.com](http://www.atsautomation.com)

© 2014 ATS, and other designated trademarks used are a trademark of ATS Automation Tooling Systems Inc. All rights reserved. Please note, technical specifications are subject to change. Any third party trademarks referenced herein are the property of their respective owners.  
March 2014