

# PSI Info Sheet

**Our Test Engineering Development personnel develop efficient, well-documented, automated functional test equipment systems based on product specifications. This equipment allows our clients to efficiently validate products in the development cycle or quickly test products in the manufacturing environment. Captured Test Data supports ISO, FDA, MIL, and TL 9000 Quality standards.**

## **PROCESS CONTROL – Pressure Transmitter ATE**

- ▶ *Automated Test Engineering Validation Tool used to verify Fieldbus Pressure Transmitter functionality through various extreme, destructive, normal operational environmental conditions. The custom VB.NET applications controlled and accessed the Pressure Sensor device while controlling GPIB, MODBUS, Ethernet, and custom protocol based instrumentation along with environmental devices.*

## **BIO MEDICAL – Blood Analyzer Diagnostic Application**

- ▶ *An adjunct application to a blood analyzer product used in the validation, manufacture, test, and maintenance of a critical hospital based blood analyzer device. The application allows personnel to develop module, multi-module, or machine based scripts for product evaluation. Support for script generation, compilation, single step operation, script file maintenance, capture of results, and real-time operation comprise the feature set. Test results are archived.*

## **MILITARY – Submarine Probe Test System**

- ▶ *The test system verifies the functionality of a sonic probe assembly product prior to launch. The probe is used to calculate the velocity of sound under different water pressure conditions. Various temperature and pressure profiles are presented to the device to validate operation prior to launch. All Test data is captured and maintained.*

## **MILITARY – Stinger Missile Test Equipment**

- ▶ *Automatic Test Equipment used in manufacturing or pre-flight test to verify functionality of the Warhead, Control surfaces, Fuse, and Flight System components of the missile. Hundreds of tests are performed using assorted off the shelf and custom test equipment to verify the functionality of each of the subsystems. Test results are documented in graphical format, hardcopy, and electronic format for traceability.*

## **Environmental Devices:**

- *Pressure Controller, Environmental Chambers, and Shaker Tables*

## **Instrumentation:**

- *Netdaq, Oscilloscopes, Spectrum Analyzers, Electronic Loads, Protocol Analyzers (RF, TCPIP, RS232, custom, etc.), PCM Stream De-Comms, 1553 bus equipment, Frequency Counters, Function and Pattern Generators, Power supplies, custom test equipment and jigs, etc*

## **Network:**

- *Off the Shelf Impairment Generators, Custom Impairment Generators*

## **Telephony:**

- *Bulk Caller, Transmission Test Sets, Telco line analyzer, T&R loop simulators and impairment generator, Utopia II Bus Test equipment, Cell Site simulators*

## **Protocols:**

- |                   |                           |
|-------------------|---------------------------|
| ▪ <i>Fieldbus</i> | ▪ <i>Ethernet</i>         |
| ▪ <i>Modbus</i>   | ▪ <i>MIL-STD 1553</i>     |
| ▪ <i>GPIB</i>     | ▪ <i>Custom Protocols</i> |

## **Languages:**

- |                 |                           |
|-----------------|---------------------------|
| ▪ <i>VB.NET</i> | ▪ <i>TCL</i>              |
| ▪ <i>C#.NET</i> | ▪ <i>VB</i>               |
| ▪ <i>C, C++</i> | ▪ <i>Custom Scripting</i> |

**Here are some of the clients we have developed test equipment systems for:**

*Lockheed Martin – Sippican  
Motorola  
Honeywell      Digilog  
Frazer-Volpe      Siemens  
DPC                  Accu-Sort*

**Quality Isn't Expensive.  
It's Priceless!**

