

## TME *Solution-CB*<sup>TM</sup>

**Non-Destructive  
Induction Welded Seal  
Leak Test System**

***Pressure or Vacuum Decay***

The TME *Solution-CB* Non-Destructive Induction Welded Seal Test System produces quantitative test results on pharmaceutical, nutraceutical or food bottles by combining the sensitivity of non-destructive pressure or vacuum decay leak testing with the simplicity of sealed fixtures. This high sensitive method uses a proprietary chamber design to find leaks in walls or seals of common bottle sizes widely used in industry today, including those with various shapes and neck or screw sizes. Customized test chambers accommodate your particular process needs, bottle sizes and shapes to detect holes as small as 5 microns. Interchangeable fixture heads enable you to test a variety of bottle sizes and shapes with one test system.

*Fixture heads provide the test chamber and are custom designed and manufactured to maximize the sensitivity of the test on your particular welded seal.*

*Access door interlock and two-hand anti-tie-down zero-force safety controls ensure a safe operating environment.*

*A Gross Leak Detector that finds open or broken seals is built into the leak test.*

*A variety of units of measure are available including PSI, InH<sub>2</sub>O, kPa, and mbar.*

*Two way RS232 computer connection is standard for data collection and remote parameter control; Ethernet connectivity is available to allow data to be transmitted from the instrument to a LAN.*

**Non-Destructive**

**Quantitative, Repeatable**

**Ethernet Available**

**High Resolution 0.0001 PSIG**

**Pressure or Vacuum Decay**

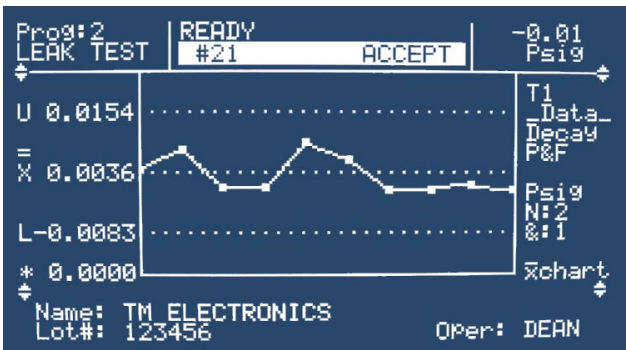
**Real Time SPC Statistics**

**CFR Part 11 Data Protection**

**NIST Traceable Calibration**

**TMElectronics, Inc.**

45 Main Street, Boylston, MA 01505 USA  
800-370-0501 or 508-869-6400

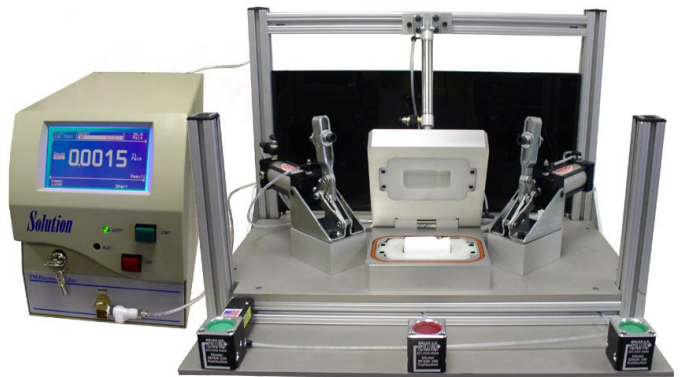


**The TME Solution-C enables real-time process control by providing statistical analysis of test results. Earlier detection of process problems reduces product loss.**

**Other Non-Destructive Bottle Testing Systems from TM Electronics:**

**SPECIFICATIONS - TME SOLUTION-C**

Dimensions..... 8 1/2"W x 16"D x 10"H  
 Power .....US: 110/220V, 50/60Hz @ 2.5 Amps  
                   European: 230V, 50-60Hz @ 1.25 Amps  
 Storage and/or Operating Environment..... 5-40°C  
                   (40-100°F), RH < 80%, non-condensing  
 Controls..... Push Buttons, Touch Pad, Keylock, Power  
                   ON/OFF Switch  
 Test Channels ..... 1  
 Test Mode ..... Pressure or Vacuum, Single or Differential  
 Single Tests.....Leak, Flow  
 Dual Tests .....Leak/Flow, Flow/Leak  
 Display.....Backlit Colored LCD, 40 character x 16 line  
                   Alphanumeric/Graphic Display  
 Units .....PSI, Inches of H2O, kPa, mbar,  
                   others available  
 DATALOG Memory ..... Up to 5000 Tests  
 PROGRAM Memory.....Up to 100 Linkable Programs  
 Statistics .....Mean and Range Charts, Histograms,  
                   Standard Deviation, Averages, Min/Max, UCL & LCL  
 Manual Output ... Test Setup Parameters, Current  
                   Results, Datalog and Statistics on Demand  
 Automatic Output .....Current Test Results to  
                   Pre-Set-Up Printer  
 Auxiliary Output ..... 24V Opto Isolated PLC Interface  
                   for Single and Multi-Port Configurations  
 Communications Port .....RS232 Connector Program  
                   Input/Data Output  
 Calibration .....NIST Traceable  
 Timer Ranges ..... .1 to 1000 Sec.  
 MODEL PRESSURE RANGE..... 0.5-5, 0.5-15.0, 1.0-50,  
                   2.0-100,5.0-250 psig  
 VACUUM RANGE .....0.2-29 InHg  
 RESOLUTION: Decay .....Max .0001 psi (.01 mbar/sec)  
 FLOW RANGE (sccm) .....Standard 250-5000  
                   Available 10 sccm to 75 lpm  
 FLOW RESOLUTION .....Standard 1 sccm  
                   Available 0.01sccm to 1.5 lpm  
 CLEANING.Soft cloth wetted with a glass cleaner such as Windex®



*This semi-automated TME Solution-CB non-destructive pressure decay leak test system for testing individual pharmaceutical bottles includes two-hand anti-tie-down safety controls to ensure a safe operating environment*



*This vacuum decay chamber test system for sealed bottles has interchangeable inserts to accommodate several bottle sizes and shapes.*