



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

## Non-Destructive Sealed Product or Package Leak Tester

The TME *Solution-C* test system produces quantitative test results from products that cannot be accessed to pressurize through an access port, as well as sealed, flexible medical, pharmaceutical and food packages. By combining the sensitivity of pressure or vacuum decay leak testing with the simplicity of sealed fixtures, the TME *Solution-C* system can detect holes as small as 5 microns. This highly sensitive method uses a proprietary chamber design to find leaks in product seals or walls and seals of common package materials such as films, foils and laminates.

**Clean, Dry Tests with Repeatable, Quantitative Results. Stores up to 100 different tests or test parameters and has a datalog capacity of 5000 test results.**

**Real time statistical analysis accessible on demand, including quality control charts for proactive process control.**

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

**The TME *Solution-C* conforms to ASTM guideline and provides CFR Part 11 Data Protection. Calibration is NIST traceable.**

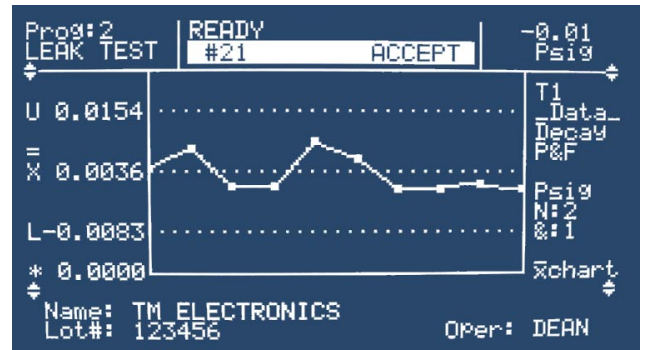
- Non-Destructive**
- Quantitative, Repeatable**
- Ethernet Available**
- High Resolution 0.0001 PSIG**
- Pressure or Vacuum Decay**
- Real Time SPC Statistics**
- CFR Part 11 Data Protection**
- NIST Traceable Calibration**

**TMElectronics, Inc.**

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



*TME Solution-C non-destructive leak tester with custom fixture for testing pharmaceutical bottles*

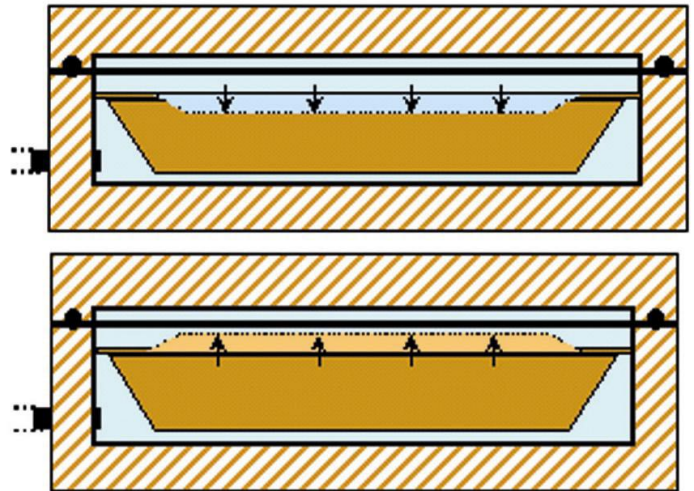


**The TME Solution-C enables real-time process control by providing statistical analysis of test results. Earlier detection of process problems reduces product loss.**

### **SPECIFICATIONS - TME SOLUTION**

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 H<sub>2</sub>O, 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®

### **What is Pressure/Vacuum Decay Chamber Testing?**



When a sealed package or device is placed in a surrogate chamber, a pressure differential can be created across the non-porous barrier on the package walls or seal. Once stabilized, air movement from the higher pressure to the lower will indicate the presence of a leak path, providing a quantitative measure of package integrity without disrupting the package seals. The Closed Chamber (Surrogate) Test can use either pressurization or vacuum techniques to create a pressure differential. The test item is placed in a custom engineered chamber, which is sealed and pressurized (or evacuated). Once the test pressure is reached, the TME *Solution-C* Leak Test instrument can detect air leaking through a hole as small as 5 microns.

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