TM Electronics, Inc.

Specialists in Leak, Flow and Package Testers

TME *Solution-C*™

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.

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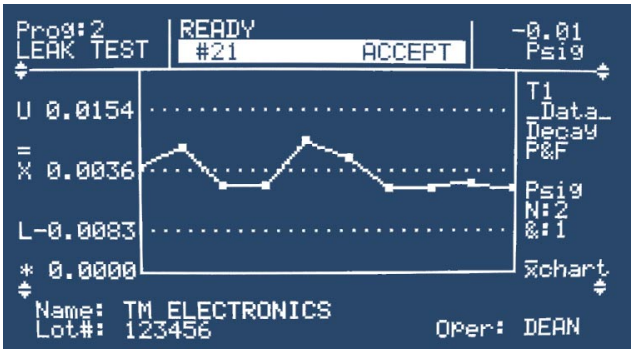
TME Solution-C non-destructive leak tester with custom fiture for testing pharmaceutical bottles

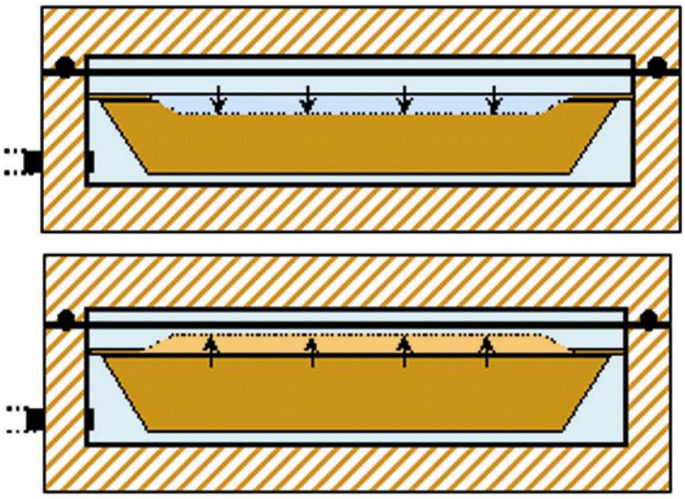


The TME Solution-C enables real-time process control by providing statistical analysis of test results. Earlier detection of process problems reduces product loss.

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 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®

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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