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TECHNOLOGY GROUP

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THE TME SOLUTION

Problem-Solving Leak and Flow Tester

from the Specialists

The TME SOLUTION is a high resolution leak and flow tester featuring one to four channel concurrent or multiple channel sequential leak and flow testing. Sensitive, repeatable and reliable, the SOLUTION can perform ten separate test types on product, including burst, occlusion, vacuum and pressure decay, crack, and differential pressure or vacuum. Touch screen menu-driven operation allows the operator to control the test parameters, examine statistical analysis of results or download data files easily. **The SOLUTION, in conjunction with custom fixtures, accessories and engineering support, provides a complete turnkey solution to your leak and flow testing problems.**

The Ultimate in Flexibility:

DO IT ALL!

- Non Destructive, Clean, Dry Tests
- Repeatable, Quantitative Results
- Up to Four Channel Concurrent Leak and Flow Testing
- Multiple Channel Sequential Leak and Flow Testing
- Real Time Statistical Analysis and Quality Control Charts
- NIST Traceable Calibration Services
- CRF Part 11 Data Protection

Industrial Applications

Pumps * Valves * Heating/AC Coils * Tubing
Toner Cartridges * Film Canisters * Hoses
Home Appliances * Food/Beverage Containers

Medical Devices

Catheters * Blood Devices * Drainage Bags
Bottles * Solution Vials * Implantable Devices
Infusion Sets * Package Integrity Testing

Automotive Components

Brakes * Cooling Systems * Fuel Systems
Transmissions * Power Steering

TM*Electronics, Inc.*

Specialists in Leak, Flow and Package Testing

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Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

LEAK TESTING with the TME SOLUTION is simply pressure sensing, with its high performance resulting from our proprietary sensing technology and low internal volume design. The system operates by connecting the tested product to the front panel test port. Internal valves allow air (or another gas) to pressurize the part and connect the part to the sensing transducer. Pressure changes as low as .0001 psi are detected from leaks in the tested part. The preset program compares the actual pressure change, then signals the operator to "Accept" or "Reject" the part.

VACUUM DECAY TESTING functions similarly to pressure decay tests; however, vacuum tests are limited to less than one atmosphere test pressure and are usually performed where specifications of the test part demand this pressure differential.

FLOW TESTING uses a precision mass flow sensor to make a direct measurement of air flow through the tested part. A direct flow reading means no separate pressure measurements or special calculations are made in the instrument.

SPECIFICATIONS - TME SOLUTION

Dimensions..... 8 1/2"W x 16"D x 10"H
Power .....110/220V, 50/60Hz, 150 Watt
Controls…... Push Buttons, Touch Pad, Keylock, Power ON/OFF Switch
Test Channels .....1,2,3 or 4 concurrent or sequential
Test Mode ..... Pressure or Vacuum, Single or Differential
Single Tests .....Leak, Flow
Dual Tests .....Leak/Flow, Flow/Leak
Display.....Backlit Blue LCD, 40 character x 16 line Alphanumeric/Graphic Display
Units .....PSI, Inches of H2O, kPa, mbar, more
DATALOG Memory ..... Up to 5000 Tests
PROGRAM Memory .....Up to 100 Programs
Statistics .....Mean and Range Charts, Histograms, Standard Deviation, Averages, Min/Max, UCL & LCL
Manual Output ..... Prints the Test Setup Parameters, Current Results, Datalog and Statistics on Demand
Automatic Output .....Current Test Results if Printer is Connected and Ready
Auxiliary Output .....24V PLC interface
Communications Port .....Two Way Up & Downloadable Programs
Calibration .....NIST Traceable
Timer Ranges ..... .1 to 1000 Sec.
MODEL PRESSURE RANGES: ..... 0.5-5, 0.5-15.0, 1.0-50, 2.0-100,5.0-250 psig; Vacuum 0.2-28 inHg
RESOLUTION: Decay .....Maximum .0001 psi (.01 mbar/sec)
FLOW RANGE (sccm) .....250-5000 Standard 10 sccm to 75 lpm available
FLOW RESOLUTION .....1 sccm - Standard 0.01 sccm to 1.5 lpm available

TME SOLUTION FEATURES

MULTIPLE STORED PROGRAMS: Program and store up to 100 different tests or test parameters to maximize your flexibility.

STORES 5000 TEST RESULTS

ADJUST SET-UP TIMES (fill, settle, test)

SET REJECT LIMITS to detect fine or gross leaks

DUAL SWITCHING CAPABILITY for operator productivity

PRESSURE RISE MEASUREMENT

TUBE OR HOLE SIZING

TWO WAY RS232 COMPUTER CONNECTION for data collection and remote parameter control

AUDIBLE AND VISUAL REJECT ALARM

EASY TO USE TOUCH SCREEN MENUS put all this flexibility at your fingertips.

OPTIONAL ACCESSORIES

RESTRAINING PLATE FIXTURES for leak testing flexible pouches have semi-porous surfaces to stabilize expansion during pressurization without blocking any holes in the surface material.

The TME RADIAL SEALING FIXTURE is a pneumatically operated clamp that provides either a sealed leak tight access to a tubular product or a sealed leak tight dead end to the produce during pressure decay leak testing. The radial sealing fixture can be configured to diameters from approximately 0.022 to 6.000 inches.

LA-05 FILTER DRYING ASSEMBLY dries and removes water, oil and particulate matter from pressurizing air. The TME SOLUTION requires clean, instrument quality air in order to maintain the warranty on the instrument.

TMElectronics, Inc.
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