

## SOLUTION FLOW AND LEAK TESTER



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. 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 or 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.

### Applications

#### 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

rakes, cooling systems, fuel systems, transmissions, power steering

TME Solution single-port leak tester with custom fixture for testing heavy industrial products.



### Features

- One to four channels
- Concurrent or sequential
- Ethernet available
- High resolution 0.0001 PSIG
- Pressure or vacuum decay
- CFR Part 11 data protection
- SPS statistics
- Pressure rise measurement
- Dual switching capability

## Technical specifications

### Tests

Test channels 1,2,3 or 4 concurrent or sequential  
Test mode pressure or vacuum, single or differential  
Single tests leak, flow  
Dual test leak/flow, flow/leak

### Test units

Psi, inches of H<sub>2</sub>O, kPa, mbar, more

### Memory

Datalog memory saves up to 5000 test results  
Program memory saves up to 100 test programs

### Statistics display

Mean and range control charts with UCL & LCL, histogram, standard deviation, averages, min/max, UCL & LCL

### Port

Two way up & downloadable programs

### 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

### Calibration

NIST traceable

### Timer ranges

0.1 to 1000 sec

### Pressure range

0.5-5, 0.5-15, 1-50, 2-100, 5-250 psig, vacuum 0.2-28 inHg

### Resolution

Decay max .0001 psi (.01 mbar/sec)

### Flow range

250-5000 sccm standard-10 sccm to 75 lpm available

### Flow resolution

1 sccm standard-0.01 sccm to 1.5 lpm available

### Power supply

220 V, 50 Hz, 150 W

### Display

Backlit blue LCD, 40 character x 16 line  
Alphanumeric/graphic display

## Physical specifications

### Dimensions

21.5 x 40.5 x 25.5 cm (W x D x H)

### Net weight

14 kg

## 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.



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.



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 0.5 mm to 150 mm.

