

# TME WORKER™



## Leak, Leak/Flow or Leak/Occlusion Tester



The TME WORKER is a high resolution (0.0001 psig) test instrument that can be configured as a Leak tester, a Leak and Flow tester, or a Leak and Occlusion tester and is available in both pressure and vacuum models.

The two-line vacuum fluorescent display is easy to see and large lighted indicators indicate pass/fail test results. The TME WORKER has PLC controls for semi-automatic operation and two-way RS-232 communication capability for downloadable program selection and up-loadable data. Ethernet connectivity is optional. The TME WORKER is an affordable, dependable tool for your day-in, day-out leak, flow and occlusion testing requirements.

Program and store up to 100 different tests or test parameters and store 5,000 test results in the Data Log. Easily adjust set-up times and set reject limits to detect fine or gross leaks.

Available in Pressure or Vacuum decay. Pressure ranges are available up to 300 psig and flow ranges available from 10 sccm to 10 lpm.

Repeatable, quantitative results; high decay resolution (0.0001 psi or 0.01 mbar) per second.

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

- Small footprint
- Fast, clean tests
- Easy to program and use
- Pressure or Vacuum decay
- Quantitative results
- Security keylock
- RS-232 connection, standard
- Ethernet available
- NIST traceable calibration

## Specifications:

<b>Dimensions:</b>	8"W x 13.7"D x 8.7"H 20.3 W x 34.79D x 22.09H cm
<b>Power Supply Voltage:</b>	90–240V
<b>Storage and/or Operating Environment</b>	5–40°C (40–100°F) RH < 80%, non-condensing
<b>Controls:</b>	Tactile push buttons, Keylock ON/OFF switch
<b>Test Channels:</b>	Single Port
<b>Test mode:</b>	Pressure or Vacuum, Single or Differential
<b>Single Tests:</b>	Leak, Flow, Occlusion
<b>Dual Tests (depending on model):</b>	Leak/Flow, Flow/Leak Leak/Occlusion, Occlusion/Leak
<b>Display:</b>	Vacuum fluorescent, Two line alphanumeric
<b>Units of measure:</b>	psi / InH2O / mbar / kPa / InHg Others available
<b>DATALOG Memory:</b>	Up to 5,000 tests
<b>PROGRAM Memory:</b>	Up to 100 Programs
<b>Manual Output:</b>	Test setup parameters, Current results, Datalog and Statistics on demand
<b>Automatic Output:</b>	Current test results to preset printer
<b>Communications:</b>	RS232, connector program input/output data
<b>Calibration:</b>	NIST Traceable
<b>Timer Ranges</b>	0.1 to 1,000 sec
<b>Model Pressure Ranges:</b>	0.5 – 15, 1 – 50, 2 – 100, 2 – 150, 5 – 300 psig
<b>Vacuum Range:</b>	–0.5 to –12.5 psig
<b>Resolution:</b>	Decay Maximum 0.0001 psi (0.01 mbar/sec)
<b>Flow Range (sccm):</b>	Standard 1 sccm Available 10 sccm to 10 lpm
<b>Flow Resolution:</b>	Standard 1 sccm Available 1.0 sccm to 1.5 lpm

**TM Electronics' Technical Specialists** are highly experienced and ready to assist you in determining and solving your leak, flow and package testing needs and in getting the most out of your test system.

In addition to our wide range of package testing accessories, our Design Engineering team can provide you with help in addressing unique package testing situations and requirements.

Visit us at [www.tmelectronics.com](http://www.tmelectronics.com) for more information on the technology of leak, flow and occlusion testing and how we can best help you.

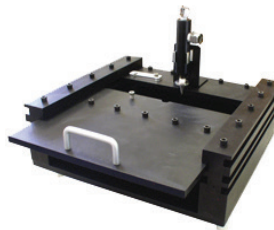
**Leak Testing** with the TME WORKER is simply pressure sensing, with its high performance resulting from our propriety sensing technology and low internal volume design. When the tested product is connected to the front panel test port, internal valves allow air (or other gas) to pressurize the part and connect the part to the sensing transducer. Pressure changes as low as 0.0001 psi are detected from leaks in the tested 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.

**Occlusion Testing** is a special type of flow test in which the instrument measures the back pressure of air flowing through the part to determine the extent to which the part is occluded.

## Optional Accessories



**Restraining Plate Fixtures.** for leak testing pouches with semi-porous surfaces to stabilize expansion during pressurization without blocking any holes in the surface material. Restraining plates provide consistent stress loading on all seals.



**LA-05 Filter Drying Assembly** dries and removes water, oil and particulate matter from pressurizing air. The TME WORKER requires clean instrument quality air in order to maintain the warranty on the instrument.



**RS-01 Radial Sealing Fixture** is a pneumatically operated clamp that provides either a sealed leak tight access to a tubular product or sealed leak tight dead end to the product during pressure seal decay leak testing. The radial sealing fixture can be configured to diameters from approximately 0.022 to 6.000 inches.

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