

# We test, You produce

## MS-40GT LEAK TEST INSTRUMENT FOR ADVANCED LEAK METROLOGY

The **MS Series of leak** detectors represent the world's largest base of installed leak detectors which are fully automatic, easy to use, and highly accurate, these advanced design leak detectors are ideal for a broad range of applications including clean, oil-free testing.

Breakthrough technology combines high test port pressure, a large capacity internal vacuum pump, and ATEQ's unique mass spectrometer making the MS series leak detectors at least four times faster than conventional portable units available today.

### BENEFITS

- Maximum performance
- Touch screen graphical display
- Available with wet or dry pumping package



### Applications

Aerospace Components, Air Conditioning and Refrigeration Systems, Automotive Components and Appliances, Batteries, Electron Beam Welders, Electronics, Food Packaging, Hermetically Sealed Devices, Medical Products, Particle Accelerators, Pharmaceuticals, Power Distribution Plants, Semiconductors, Sputtering Equipment, Vacuum Systems, Valves...



# MS-40GT

## LEAK TEST INSTRUMENT

### FOR ADVANCED LEAK METROLOGY

#### Measurement characteristics

- Sensitivity:  $4 \times 10^{-11}$  atm cc/sec in direct mode, Sensitivity:  $4 \times 10^{-10}$  atm cc/sec in reverse mode
- Sensitivity:  $5 \times 10^{-7}$  atm-cc/sec in sniff mode
- Time To Test: 1.5 seconds on a blank test port
- Response Time: Direct Mode <2 seconds, Reverse Mode <3 seconds
- Leak Range:  $1 \times 10^{-3}$  to  $4 \times 10^{-11}$  (10 to  $4 \times 10^{-11}$  atm cc/sec w/ext pump)
- Resolution: resolving power of 14 at mass 4
- Maximum Inlet Pressure: atmosphere in Gross (with dedicated external roughing pump), 7.5 Torr in Fine
- Start Up Time: < 3 minutes
- Testable Masses: He 3 and He 4

#### Options

- Handheld remote control unit with 25' or 50' cord
- External roughing kit, w/valving and manifolding and pump
- Mobile cart
- Mini Sniffer Probe
- Hard travel case

#### Accessories

- Calibrated Gas Leaks
- Helium Bombing Station
- Connectors...

#### Other Formats

- MS-40GT Wet Pumping Package
- MS-40GT Dry Pumping Package
- MS-40 Dry Clean Room Compliant
- MS-40 GT Plus Package with external wet or dry pumping package
- MS-50 GT Console Units featuring wet, dry, high sensitivity, dual port, UFT or argon configurations

#### Main Features

- Simple one-button start up
- Fully automatic operation, tuning and calibration with internal NIST traceable temperature compensated calibrator
- Three modes of operation in a single unit
- Built-in diagnostics for trouble-free maintenance
- Dual magnetic sector mass spectrometer with resolving power of 14
- Allows testing for the smallest leaks at the highest pressures
- Ready to test in under three minutes
- Reduces operator training: easy to use
- Auto-zeroing with continuous background compensation
- Rotary vane and dry pumps available
- Faster, more accurate testing

#### Test Modes

- Flow Units: std cc/sec, mbar L/sec, Pa m<sup>3</sup>/sec
- Pressure Units: mTorr, mBar, Pa
- Leak Ranging: automatic and manual
- Testing Modes: Gross, Reverse, Direct, Combination, Sniff

#### Flexible Communication format

- Full duplex RS232 communication
- Parallel Printer Port
- Chart Recorder Output
- Audio Output
- Remote Output
- Option Data Link Software

#### Technical Specifications

<b>Physical</b>	Dimensions: (W x H x D): 52.7 x 38.1 x 35.6 cm Weight: 39.5 Kg wet unit, 43.6 Kg dry unit
<b>Interface</b>	Touch Screen Graphical User Controls
<b>Electrical supply</b>	115/50-60/8; 230-240/50-60/5; 100/50-60/8 (V/Hz/A)
<b>Temperature</b>	Operating: +0 °C to +46 °C Storage: 0 °C to +60 °C

