

MS-40GT



Calibration Options:

- Automatic
- Manual

Available Options:

- Dry pumping package-No Carbon usage
- Wet pumping package

MS-40GT Portable Helium Leak Detector

The MS-40GT available in either wet or dry pumping package is fully automatic, easy to use, and highly accurate. These advanced leak detectors are ideal for a broad range of applications including clean, oil-free testing. The MS-40GT is a portable, helium mass spectrometer leak detector that may be used for both quantifying and locating leaks in objects that can be evacuated or pressurized. Helium that is present in a test object is drawn into the unit (either through the test port or through the sniffer valve), isolated and detected by a mass spectrometer, and converted into an electric signal. The electric signal generated is proportional to the leak rate of the helium drawn through the leak found in the test object. Once this signal is amplified, the signal is displayed as a leak rate on the User Panel of the MS-40GT.

APPLICATIONS

Air Conditioning & Refrigeration Systems

- Coils & Hoses
- Evaporators & Condensers
- Compressors

Automotive Components

- Air conditioning components
- Fuel Rails injection systems
- Hoses
- Pressure transducers
- Headlights
- Wheels

Appliances

- Fire Extinguishers
- Gas Meters
- Heat Pumps

Aerospace

- Batteries

Medical Devices

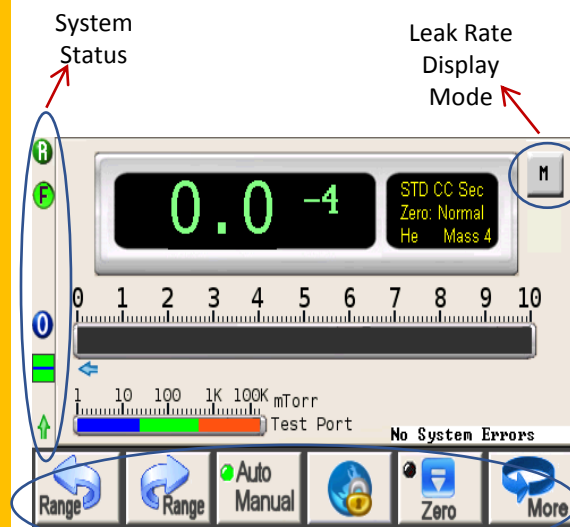
- Electronics

Others

- Glass Manufacturing
- Semiconductors

BENEFITS

- Available under our rental program
- System is ready in less than 3 minutes
- Reduces operator training; easy to use
- Faster, more accurate testing
- Sniffing operation through dedicated port



Navigation Buttons



Product Specifications

Characteristics

Sensitivity, vacuum*: 4.0×10^{-11} (atm-cc/sec)

Sensitivity, sniffing: 5.0×10^{-7} (atm-cc/sec)

Leak Measurement Range: 1.0×10^{-3} to 4.0×10^{-11} (10 atm cc/sec to 4.0×10^{-11} w/ext pump) atm-cc/sec

Leak Ranging: Auto/Manual

Startup Time: Less than 3 minutes

Response Time *: <2 direct <3 reverse

Resolution for 4He *: 14

Mass Spectrometer Tube: 180° deflection; dual-magnetic sector/stainless steel construction

Auto-tuning: Yes

Auto-calibration: Internal – yes; External – auto

Auto-zeroing: Yes

Reject set-point: Yes

Built-in calibrated leak: Yes

NIST traceable: Yes

Temperature compensated: Yes

He Scan: Yes

Filaments: 2 Thoria Coated Iridium

Maximum Operating Pressure: 7.5, 760 w/ext roughing option (Torr)

Display: Touch screen GUI user interface

Units: atm cc/s, mbar*/l/s, Pa*M3/sec

Background Compensation: Continuous automatic compensation for system background

Testable Masses: 3 and 4

Printer Port: No

RS-232C: Yes

Remote Control: Yes

System Details

Vacuum Mode: Direct, reverse or combination flow, gross testing with ERU

Roughing Pump:

MS-40GT: 1.2 Mechanical Foreline/Roughing Pump (cfm)

MS-40GT Dry: Built-in dry 16 cfm dual stage diaphragm/molecular drag pump (cfm)

High Vacuum Pump: 53 turbomolecular high vacuum pump (c/sec)

Vacuum Gauging: Pirani: Test port & foreline; Ion: High vacuum

Test Port Connection: NW25

Dimensions (W x H xD): 20.5 x 15 x 14 (52.7 x 38.1 x 35.6) Inches (cm)

Weight:

MS-40GT: 87 (39.5kg) lbs.

MS-40GT Dry: 96 (43.6) lbs.

Power: 115/50-60/8; 230-240/50-60/5; 100/50-60/8 (V/Hz/A)

Software

Data Link

MS-40 User Panel



FEATURES

- Touch-Screen Graphical User Interface
- Highest accuracy in the industry
- Simple one-button start-up
- Built-in diagnosis for trouble-free maintenance
- Fully automatic tuning and calibration
- Internal NIST-traceable temperature compensated calibrator
- Fast, non-destructive leak testing assures longer life and greater protection for your product
- Allows testing for the smallest leaks at the highest pressures
- RS-232 port provides for external control
- Remote control
- Cleanroom model, Optional

