Air Leak Tester with more versatility and capability

AIR LEAK TESTER
LS-R902

Loaded with advanced features evolved throughout our extensive knowledge and experiences

- FULL-COLOR TOUCH-SCREEN DISPLAY
  Easy-to-navigate and intuitive interface with simple menu configurations

- MULTI-LANGUAGE CAPABILITY & QUICK ACCESS
  Selectable from English, Japanese, Chinese, Korean, German, Spanish and Portuguese.
  Jumps to the screen selected from Advanced Settings, System Settings, Comp, System Settings, Settings Backup/Restore and Error Log

- WAVEFORM MEASUREMENT DISPLAY
  Graphical display of the test pressure and measured differential pressure

- CAL DRIVING VALVE for LEAK MASTER (Type J)
- ALC (AUTO LEAK CALIBRATER) (Type K)
  Convenient calibration tool selectable as an option

- AUTOMATIC SETUP FEATURE FOR EASY PROGRAMMING
  Supports initial test parameter programming by determining stage timers

- USB PORT FOR EASY DATA STORAGE
  Test results can be automatically copied to a USB Memory after every test.
  Test parameters and System data backup can be stored as well.

- MASTERING FEATURE PROVIDES HIGHLY ACCURATE TEST RESULTS
  Provides faster and more accurate test results by compensating for environmental drifts.
  Using the Mastering feature, variety of parts can share a Master Chamber as a reference.

COSMO INSTRUMENTS CO., LTD.
Convenient for quicker setup operation.

Measurement screen is selectable from 6 different screens. For four measurement screens, “Standard”, “Simple”, “Waveform” and “4-Channel”, the items to be displayed can be customized.

Easy-to-navigate configuration with icons

Intuitive operation makes test parameter programming easy.

Selectable Measurement Screens

Large numeric keyboard pops up for easy test parameter setting.

Settings Menus

Improved Operability by Quick Access

Convenient for quicker setup operation.

Other Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>Full-color 5.7-inch LCD touch-screen</td>
</tr>
<tr>
<td></td>
<td>Selectable from 6 different measurement screens</td>
</tr>
<tr>
<td>Intelligent Pneumatic Circuit</td>
<td>Comes with self-check features: Sensor sensitivity, Air-valve performance</td>
</tr>
<tr>
<td>K(Ve) Auto Setup</td>
<td>K(Ve) can be setup using a calibrator, Leak Master or Auto-Leak Calibrator (ALC) to convert measured pressure to a flow rate.</td>
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<tr>
<td>Leak Limits</td>
<td>Two sets of leak limits: Medium/Small leaks on Work-side (UL/UL2) and Master-side (LL/LL2)</td>
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<tr>
<td>Electro-pneumatic Regulator</td>
<td>For the models come with Electro-pneumatic regulator, different test pressure can be set independently for each channel.</td>
</tr>
<tr>
<td>Noise Reduction (NR)</td>
<td>Eliminates noise by repeating the DET stage when the reading falls between DET UL and DET UL2.</td>
</tr>
<tr>
<td>Operation Manual Download</td>
<td>Operation manual in each language can be downloaded through the USB port.</td>
</tr>
<tr>
<td>Drift Compensation</td>
<td>Mastering, Auto-Drift Compensation, Compensation Limits, Number of Samples</td>
</tr>
<tr>
<td>Self Check</td>
<td>Air-operated valve performance, DPS/PS Offset, CPU performance and others</td>
</tr>
<tr>
<td>Sensor Protection</td>
<td>Air-Blow (Intelligent Pneumatic Circuit)</td>
</tr>
<tr>
<td></td>
<td>The pneumatic circuit is cleaned at the end of every leak test.</td>
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<tr>
<td>Exhaust Interference Prevention</td>
<td>Exhaust timing will be controlled for the cases where multiple cavities are tested simultaneously</td>
</tr>
<tr>
<td>Charge Hold</td>
<td>Tester pressurizes the tested part continuously Used to locate leaks.</td>
</tr>
<tr>
<td>Control I/O Port</td>
<td>Both for NPN-PNP For Phoenix Contact connector, wire connection can be done with a flat-bladed screwdriver.</td>
</tr>
<tr>
<td>Serial Communication</td>
<td>RS-232C: 2 ports (On the front and rear panels) USB: 1 port</td>
</tr>
<tr>
<td>Mastering Settings</td>
<td>Day of Week, Interval, Iteration, Max Idle Time, Consecutive Triggers, Mastering Comp Value, Mastering Limits</td>
</tr>
<tr>
<td>Display/Messages</td>
<td>Error Message, Troubleshooting, I/O Monitor, Channel Title, Counter etc.</td>
</tr>
<tr>
<td>Quick Mounting Brackets</td>
<td>Tester can be mounted/removed with only two screws. Good for mounting the tester in a limited space.</td>
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</tbody>
</table>
Pneumatic Circuit (Intelligent 2 Pneumatic Circuit)

General Specifications

1. **Pneumatic Circuit**
   - A1: Intelligent 1 Pneumatic Circuit,
   - A2: Intelligent 2 Pneumatic Circuit
   - AS1: Small Volume A1 Circuit,
   - AS01: Micro Volume Circuit,
   - C: Secondary Pressure Circuit

2. **Pressure Range**
   - Pressure Range Precision Regulator
     - L02: 5 to 20 kPa, L: 10 to 100 kPa, M: 50 to 800 kPa, V: -5 to -100 kPa
     - H20: 2.0 MPa or lower, H49: 4.9 MPa or lower
   - Pilot Pressure
     - Set by the installed filter regulator for pilot pressure: 400 to 700 kPa
   - Port Size
     - Rs-PT 1/4 (Test pressure, Work and Master ports)
     - Rs-PT 1/4 (Pilot pressure)

3. **Options**
   - J: Comes with CAL Driving Valve for Leak Master
   - K05: Comes with ALC-05 0.5 mL
   - K10: Comes with ALC-10 10 mL
   - B: Bypass Circuit Ready without regulator
   - B1: Bypass Circuit Ready with regulator
   - D: Differential Pressure Sensor Range: ±10 kPa
   - PV: Pressure/Vacuum Pressure Sensor
   - UX: UL conformed
   - N*: Industrial Field Network (Industrial EtherNet / Fieldbus)
   - RX09: TCU ports (IN, OUT) provided on the rear panel without TCU
   - RX10: TCU ports (IN, OUT) + TCU (Temperature Compensation Unit), sensors and cables sold as a set
   - RX11: 100 Channels

4. **Power Cord**
   - VA: 125 VAC/7A Length: 3 m
   - VE: 250 VAC/10A Length: 2 m (CE conformed)
   - VK: 250 VAC Length: 2 m (Only for Chinese customers)

External Appearance
Temperature Compensation (Option)

Reduces the setup time by more than 50%. (Compared with conventional tester)
Samples the temperatures of the environment, tested parts etc. to derive the optimum Compensation value.

Industrial Field Network (Option)

Supports smooth communication with PLC with fewer cables. Test results can be output to the network.

Peripherals for Air Leak Tester

Custom-made Coupler

Leak Master / Calibrator

Pneumatic Parts

Bypass Circuit Unit

I/O Conversion Cable

NL Select Valve

G3 External Exhaust Valve

PC Link Software 4

Main accessories for Option RX10

Work Temperature Sensor

Fixture Temperature Sensor

Temperature sensor extension cable

* The contents of this catalog are as of November 2018. The specifications are subject to change without prior notice.