**Description**

The SENTINEL MH is an advanced high-speed multi-function leak test instrument. It provides high-resolution leak test measurements with fast and repeatable results in a compact modular design allowing placement closer to the part.

**APPLICATIONS**

- Automotive
- Powertrain
- Consumer Goods
- Energy
- HVAC/R
- Medical
- Consumer Electronics
- Other Transportation

**Highlights**

- 32 test programs
- High-resolution
- CTSnet LT PC application interface
- Live data streaming
- Stores up to 5000 test results
- Cost-effective

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing (HxWxD)</td>
<td>6.5 x 3.5 x 8.5 in (165 x 90 x 215 mm)</td>
</tr>
<tr>
<td>See mounting and clearance diagrams</td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td>24 VDC +/- 1% 1.5 Amps</td>
</tr>
<tr>
<td>Air Quality</td>
<td>ISO 8573-1:2010 [2:2:2] Compressed air or nitrogen only</td>
</tr>
<tr>
<td>Pressure Regulation</td>
<td>External (customer supplied) or Internal Electronic regulator</td>
</tr>
<tr>
<td>Test Pressure</td>
<td>Vac – 200 psig</td>
</tr>
<tr>
<td>Pilot Pressure</td>
<td>55 - 70 psig (3.8 – 4.8 bar)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>41-104° F (5-40° C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>90% non-condensing</td>
</tr>
<tr>
<td>I/O</td>
<td>7 Inputs / 5 Outputs</td>
</tr>
<tr>
<td>Instrument Weight</td>
<td>4.9 lbs (2.2 kg)</td>
</tr>
</tbody>
</table>
Test Capabilities

- Differential Pressure/Vacuum Decay - $\Delta P$
- Differential Pressure/Vacuum Decay - $\Delta P/\Delta T$
- Differential Pressure/Vacuum Decay - Leak Standard
- Differential Pressure/Vacuum Decay - Leak Rate
- Occlusion (Back Pressure)

Interfaces

- Communication via RS232, TCP/IP (Telnet), and EtherNet/IP™
- Tooling control for simple applications
- I/O: 7 inputs / 5 outputs independently set per test program

Measurement Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Accuracy*</td>
<td>±0.006 % FS</td>
</tr>
<tr>
<td>Measurement Resolution</td>
<td>0.000001 $\Delta$psi</td>
</tr>
<tr>
<td>Leak Rate Resolution</td>
<td>0.00005 sccm</td>
</tr>
</tbody>
</table>

*Consult factory for details

Options

- Electronic regulator
- Multiple pressure ranges
- External leak standard port

Accessories

- Calibrated leak standard
- CTS Connects
- Calibrated adjustable leak simulator
- Filter kit

Mounting and Clearance Position

[Diagram of mounting and clearance position]
CTSnet LT

- Intuitive user interface that allows easy control right from your PC
- Connect → Configure → Run a test (Start/Stop) → Read results
- Monitor test in real-time
- Export configuration, calibrations, and results