**Description**

The Sentinel TracerMate II is an advanced, multi-functional leak test and tracer gas instrument used to detect microleaks. It is an integrated leak test solution that works with almost any gas sensor.

**Applications**

- Automotive
- Electric vehicles
- HVAC/R
- Industrial assemblies
- Appliances

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**Highlights**

- Supports basic and advanced sniffer test types
- Supports pressure decay test types
- 99 programs
- Program calibration with CTS Performance Factor
- Communication RS232, TCP/IP
- Parent program linking
- Global-friendly control interface
- Automatic program calibration with leak standard

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**TracerMate II Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instrument Housing</td>
<td>TracerMate wall mount configuration</td>
</tr>
<tr>
<td></td>
<td>16&quot; w x 16&quot; h x 8&quot; d</td>
</tr>
<tr>
<td></td>
<td>(406 x 406 x 204 mm)</td>
</tr>
<tr>
<td>Electrical</td>
<td>100-240 VAC, 50/60 Hz</td>
</tr>
<tr>
<td>Air Quality</td>
<td>ISO 8573-1:2010 [2:2:2]</td>
</tr>
<tr>
<td>Pilot</td>
<td>60 psig (41 bar) minimum</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>Digital I/O</td>
<td>12 inputs and 12 outputs, 24 V - 1 A max.</td>
</tr>
<tr>
<td></td>
<td>Tooling control up to 5 motions with feedback</td>
</tr>
<tr>
<td>Instrument Weight</td>
<td>45-60 lbs (20-27 kg)</td>
</tr>
</tbody>
</table>
Pressure Decay Test Types
- Pressure/Vacuum Decay - Leak Standard
- Pressure/Vacuum Decay - ΔP
- Occlusion - Pressure or Vacuum
- Pressure Verify
- Parent Program Linking

TracerMate Test Types
- Sniffer
- Accumulation
- Basic and Advanced Hardvac
- Basic and Advanced Hardvac (Precharged)
- Purging Clamshell (Patented Technology)
- Evacuation and N2 Backfill / Purge
- Step Proof Test
- Refrigerant Fill
- Capillary Test

TracerMate Test Assist
- Parent Program Linking
- Sequential Linking
- Helium Recovery Valve

Measurement Resolution

TEST PRESSURE / PRESSURE LOSS

Displayed Resolution:
Range is selectable X - X.XXXXXX displayed units during pre-fill, fill, stabilize, test, and exhaust

Transducer Options:

<table>
<thead>
<tr>
<th>Range</th>
<th>Measurement</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20 psia</td>
<td>-14.7 to 5 psig</td>
<td>0.000004 psig</td>
</tr>
<tr>
<td>0-45 psia</td>
<td>-14.7 to 30 psig</td>
<td>0.000008 psig</td>
</tr>
<tr>
<td>0-115 psia</td>
<td>-14.7 to 100 psig</td>
<td>0.000021 psig</td>
</tr>
<tr>
<td>0-215 psia</td>
<td>-14.7 to 200 psig</td>
<td>0.000040 psig</td>
</tr>
<tr>
<td>0-515 psia</td>
<td>-14.7 to 500 psig</td>
<td>0.000096 psig</td>
</tr>
<tr>
<td>0-1015 psia</td>
<td>-14.7 to 1000 psig</td>
<td>0.000250 psig</td>
</tr>
</tbody>
</table>

LEAK RATE
Displayed Resolution: Selectable X - X.XXXXXX displayed
Instrument Resolution: 0.0005 scc/min

Pressure Regulators
- Maximum 3 + 1 vacuum (externally mounted)
- Manual regulator options
  - 0.2 to 2.5 psiv (0.5-5 inHG)
  - 2.5 to 14.5 psiv (5-29 inHG)
  - 0.5 to 10.0 psig(non-relieving)
  - 2.0 to 250.0 psig (non-relieving)
  - 4.0 to 500.0 psig (non-relieving)
  - 6.0 to 750.0 psig (non-relieving)

Leak Standard
- External leak quick connect included standard
- Chamber calibration leak external on purging clamshell, accumulation chamber, or hard-vacuum chamber
- Helium permeation for helium verification, front port of instrument
- Gas mix capillary, introduced in test port

Accessories
- External hardvac gauge
- External nitrogen purge valves
- Purging clamshell
- Remote start/stop pendant
- Benchtop stand
RS232 Communication Ports

- 2-way communication
- Test result data transmission with definable fields
- Pressure streaming for waveform analysis
- Generated reports with test data and configuration
- Sniffer/weight scale communication
- Barcode unique part identification

Ethernet Port

- 2-way Telnet communication
- Email of reports, test data, and alerts
- Test result data transmission with definable fields
- Test program selection

External USB Port

- Provides additional program storage capacity and synchronized test result data storage
- Backup/restore of instrument functions
- Report storage
- Test result data storage and automated result synchronization

Compact Enclosure Design

Communication connections located at the side, test ports and pressure regulators on the bottom of the unit

Full-Color LCD Display

- 480 x 272 pixels
- User-friendly icon-based menus
- Menu operating modes: Basic, Advanced, Admin
- Graphing of Pressure or Flow vs. Time with plot position and zoom capability
- Displays active/inactive status of digital inputs and outputs

Selectable Menu Languages

- Language neutral operator interface
- English, Spanish, Chinese, Korean, Portuguese, and German language options

3-Color Light-Bar

- Panel mount light indicators provide visual feedback of test results
- White = In-Test, Green = Accept, and Red = Reject
- Eliminates stack lights
- Adjustable brightness
- Adjustable duration

Password Security

- Select menu items to secure or unsecure

Help Menus

- On-screen popup window description of parameters (activated by single shortcut key)
- Minimizes need to have the equipment manual present when programming the instrument