Measures Asphalt Content without Toxic Chemicals or High Temperature Burns
The Microlab provides the asphalt content measurement without the hazard and expense of the toxic chemicals employed in the solvent extraction method. This method is also beneficial when analysing material that may be lost in a high temperature burn oven.

Simplifies Reporting of Results
The Microlab downloads test data directly to a printer or computer, simplifying the reporting of results.

Reduces Calibration Time for Field Sites
Calibration transfer from a centrally located 3241 gauge greatly reduces calibration time for field sites.

Compatible with the Optional Universal Sample System
Compatibility with the optional Universal Sample System, provides the added convenience of measuring either the commonly used 100 mm (4 inch) or 150 mm (6 inch) laboratory compacted samples.

Meets or Exceeds ASTM Standard Test Method D-4125
Troxler’s asphalt content measurement equipment is used as the standard test method by more than 25 states and federal transportation agencies. Hundreds of highway construction contractors and testing authorities use the 3241-D for quality control and acceptance testing.
### Additional Features

- **Automatic Shutdown** after five hours of non-use.
- **Statistical Stability Test** validates normal gauge operation.
- **Drift Test** determines long-term drift of the gauge readings.
- **Samples Routine** prompts and helps operators in preparing 7000g samples.
- **Automatic Sample Temperature Compensation** automatically adjusts gauge to varying sample temperatures.
- **Automatic Data Storage Option** automatically stores gauge readings by identification number after count is completed.
- **Automatic Data Printing Option** automatically configures gauge to print readings after count is completed.
- Supplied with four stainless steel pans and hardshell case for transport.

### Precision

<table>
<thead>
<tr>
<th>Sample</th>
<th>1 min.</th>
<th>4 min.</th>
<th>8 min.</th>
<th>16 min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7000 grams (3241-C)</td>
<td>±0.084%</td>
<td>±0.042%</td>
<td>±0.029%</td>
<td>±0.021%</td>
</tr>
<tr>
<td>7000 grams (3241-D)</td>
<td>±0.22%</td>
<td>±0.11%</td>
<td>±0.08%</td>
<td>±0.05%</td>
</tr>
</tbody>
</table>

Operator can select desired precision.
Range of control mix is 0 to 14% asphalt.
Meets or exceeds the requirements of ASTM-D-4125.

### Electrical

- **Power Source**: 110/220 VAC, 50/60 Hz, 12V vehicle battery or Alkaline Batteries (Dcell).
- **Power Consumption**: 1 Watt (nominal).

### Data Storage and Transfer

- **Test Data Storage**: Up to 99 tests.
- **Calibration Storage**: Up to 64 calibrations.
- **Interface**: RS-232C for transfer to printer or computer.

### Mechanical and Environmental

#### Gauge

<table>
<thead>
<tr>
<th>Length</th>
<th>14.25&quot; (36.2 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>11.00&quot; (27.9 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>10.50&quot; (26.7 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>30.0 lbs. (13.62 kg)</td>
</tr>
</tbody>
</table>

#### Control Unit

<table>
<thead>
<tr>
<th>Length</th>
<th>8.62&quot; (21.9 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>11.00&quot; (27.9 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>3.60&quot; (9.2 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.75 lbs. (1.25 kg)</td>
</tr>
</tbody>
</table>

- **Operational Temperature Range**: 0 to 140°F (-18 to 60°C).
- **Sample Temperature Range**: 0 to 350°F (-18 to 177°C).

### Radiological

- **Neutron Source (3241-C)**: 100 mCi ±10mCi (3.7 ± 0.37 GBq) Am-241:Be
- **Neutron Source (3241-D)**: 80 mCi ±8mCi (3.0 ± 0.3 GBq) Am-241:Be.
  (contains two 40 mCi (1.48 GBq) sealed sources).
- **Source Form**: Encapsulation in stainless steel, Special form.
- **Shielding**: Polyethylene and Cadmium.