E9000 Portable Emissions Analyzer For Boiler, Engine, Furnace, Kiln, & Other Combustion Applications

Accurate / Reliable / Robust / Fast

- Up to NINE (9) Gas Sensors
- NDIR Sensors Available
- True NOx & Low NOx Measurements
- Built-In Thermoelectric Chiller
- Automatic Condensate Drain
- Full Color Graphic Display
- Upgraded Memory (16,000 Tests)

Available gas measurements:
- O₂, CO, CO₂, NO, NO₂,
- SO₂, CxHy (HC), H₂S

Heated Probe & Sample Head

Built-In Printer Non-Fading Paper

US EPA CTM-30 & CTM-034 Compliant

PC Software with Bluetooth®

iOS and Android Mobile Applications

E Instruments by Sauermann
www.e-inst.com

P: 1+215-750-1212 - F: 1+215-750-1399
850 Town Center Drive, Langhorne, PA, USA, 19047
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Sensor</th>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>Electrochemical</td>
<td>0 - 8000 ppm</td>
<td>1 ppm</td>
<td>±5 ppm &lt;100 ppm ±5 % rdg for &gt;100 ppm</td>
</tr>
<tr>
<td>CO diluted</td>
<td>Electrochemical</td>
<td>0.8 - 10.00 %</td>
<td>0.1 ppm</td>
<td>±3 % rdg</td>
</tr>
<tr>
<td>CO</td>
<td>NDIR</td>
<td>0 - 15.00%</td>
<td>0.1 ppm</td>
<td>±3 % rdg</td>
</tr>
<tr>
<td>CO</td>
<td>Calculated</td>
<td>0 - 99.9 %</td>
<td>0.1 ppm</td>
<td>±1 %</td>
</tr>
<tr>
<td>CO</td>
<td>NDIR</td>
<td>0 - 50.0 %</td>
<td>0.1 ppm</td>
<td>±5 % rdg &lt;50 %</td>
</tr>
<tr>
<td>NO</td>
<td>Electrochemical</td>
<td>0 - 5000 ppm</td>
<td>1 ppm</td>
<td>±5 ppm &lt;100 ppm ±5 % rdg for &gt;100 ppm</td>
</tr>
<tr>
<td>NO</td>
<td>NDIR</td>
<td>0 - 100.0 ppm</td>
<td>0.1 ppm</td>
<td>±1.5 ppm &lt;40 ppm ±5 % rdg &lt;100 ppm</td>
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<tr>
<td>Low NO and/or</td>
<td>Electrochemical</td>
<td>0 - 100.0 ppm</td>
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<td>SO₂</td>
<td>Electrochemical</td>
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<tr>
<td>CxHy (HC)</td>
<td>NDIR</td>
<td>0 - 50,000 ppm</td>
<td>1 ppm</td>
<td>±50 ppm &lt;2,500 ppm ±2 % &gt;2,500 ppm</td>
</tr>
<tr>
<td>H₂S</td>
<td>Electrochemical</td>
<td>0 - 500.0 ppm</td>
<td>0.1 ppm</td>
<td>±5 ppm &lt;125 ppm ±4 % rdg &lt;500ppm</td>
</tr>
<tr>
<td>Tair</td>
<td>Pt100</td>
<td>-4 to 248 °F</td>
<td>0.1 °F</td>
<td>±1 °F</td>
</tr>
<tr>
<td>Tgas</td>
<td>Tc K</td>
<td>-4 to 2280 °F</td>
<td>0.1 °C</td>
<td>±2 °C</td>
</tr>
<tr>
<td>Differential</td>
<td>Calculated</td>
<td>-4 to 2280 °F</td>
<td>0.1 °F</td>
<td>-</td>
</tr>
</tbody>
</table>

**All E9000 Kits Include:**
- Thermoelectric Chiller with Automatic Condensate Drain
- Built-In Printer
- New iOS & Android App (Remote Display & QR Scanning)
- CO₂ % Calculation
- Combustion Efficiency, Losses, & Excess Air Calculations
- Draft & Differential Pressure
- Temperature Measurements
- Large Color Display
- 16,000 Test Internal Memory
- Bluetooth Connectivity
- Rechargeable Battery Pack & AC Charger
- Gas Sampling Probe & Hose
- PC Software & USB Cable
- Operating Manual
- Calibration Certificate
- Aluminum Carrying Case

**Standard Configuration**

<table>
<thead>
<tr>
<th>Model #</th>
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<tr>
<td>E9000-OCN-0-12</td>
<td>Standard E9000 Configuration with O₂, CO, NO Gas Sensors, Upgradeable to 9 Gas Sensors Total</td>
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</table>
E9000
Ordering Code
Part # 9000 - Table A - Table B - Table C

Table A | Electrochemical Sensors (Maximum of Six)
--- | ---
O | O₂ Sensor (0 - 25 %)
C | CO Sensor (0 - 800 ppm) with Dilution Auto-Range up to 10 %
N | NO Sensor (0 - 5000 ppm)
NL | Low NO Sensor (0 - 100.0 ppm)
D | NO₂ Sensor (0 - 1000 ppm)
DL | Low NO₂ Sensor (0 - 100.0 ppm)
S | SO₂ Sensor (0 - 5000 ppm)
SL | Low SO₂ Sensor (0 - 100.0 ppm)
H | H₂S Sensor (0 - 500 ppm)

Table B | NDIR (non-dispersive infrared) Sensors
--- | ---
IR | CO₂ Sensor (0 - 50 %), CxHy Sensor (0 - 5 %), and High CO Sensor (0 - 15 %)
0 | No NDIR sensors

Table C | Sampling Probes and Hoses
--- | ---
12 | 12" (300 mm) Probe, 1470 °F (800 °C) max, with 10' (3 m) Dual Hose
30 | 30" (750 mm) Probe, 1470 °F (800 °C) max, with 10' (3 m) Dual Hose
40 | 40" (1 m) Probe, 2190 °F (1200 °C) max, with 10' (3 m) Hose for High Temperature Combustion Applications
60 | 60" (1.5 m) Probe, 2190 °F (1200 °C) max, with 10' (3 m) Hose for High Temperature Combustion Applications
12H | 12" (300 mm) Probe, 1470 °F (800 °C) max, with 10' (3 m) Heated Sample Hose & Probe Head
40H | 40" (1 m) Probe, 2190 °F (1200 °C) max, with 10' (3 m) Heated Sample Hose & Probe Head
SINT1 | Sintered Filter with Half Shield for Probe Tip

All E9000 Kits Include:
• Built-In Printer
• New iOS & Android App (Remote Display & QR Scanning)
• CO₂ % Calculation
• Combustion Efficiency, Losses, & Excess Air Calculations
• Draft & Differential Pressure
• Temperature
• Water Trap with Filter Cartridge
• Magnetic Rubber Holster
• PC Software & USB Cable
• Operating Manual
• Calibration Certificate
• ABS Hard Carrying Case

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<td>0 - 25 %</td>
<td>0.1 %</td>
<td>±0.2 % vol</td>
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<td>CO₂ compensated w/ built-in NOx filter</td>
<td>Electrochemical</td>
<td>0 - 8000 ppm</td>
<td>1 ppm</td>
<td>±8 ppm &lt;200 ppm ±5 % rdg up to 2000 ppm ±10 % rdg for &gt;2000 ppm</td>
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<td>CO₂</td>
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<td>0 - 99.9 %</td>
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<td>±3 % rdg &lt;8 % ±5 % rdg &lt;50 %</td>
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<td>±1 ºF ±1 ºC</td>
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<td>Tgas</td>
<td>TcK</td>
<td>-4 to 2280 ºF -20 to 1250 ºC</td>
<td>0.1 ºF 0.1 ºC</td>
<td>±2 ºF ±2 ºC</td>
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<tr>
<td>Differential temperature</td>
<td>Calculated</td>
<td>-4 to 2280 ºF -20 to 1250 ºC</td>
<td>0.1 ºF 0.1 ºC</td>
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- DL: Low NO₂ Sensor
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- SL: Low SO₂ Sensor
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**NDIR (Non-Dispersive Infrared) Sensors:**
- IR: CO₂ Sensor, CxHy Sensor, & High CO Sensor
- 0: No NDIR Sensors

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