



**BRIDGE**  
analyzers, inc.

## **Model 900323 Product Description and Specifications**



### **Model 900323 Hand-Held 2 Gas (CO/HC) Analyzer**

- A CO/HC tuning gas analyzer that you can hold in your hand!
- Identical to larger machines, uses 30-year time proven NDIR technology for reliable, accurate gas measurement in a modern small instrument.
- Instant On and built in battery pack for 6 hours cordless operation – pick up and go.
- The Simplest, Lowest Cost Design for Motorcycle and Forklift Tuning using CO and HC.
- Rugged, simple to use – all digital design provides reliability with ease of use.
- Fast - updates gas readings 4 times per second – 8 seconds from the tailpipe to reading.
- Fuel selection feature for Gasoline, Propane, or CNG vehicles.

**Bridge Analyzers, Inc.**  
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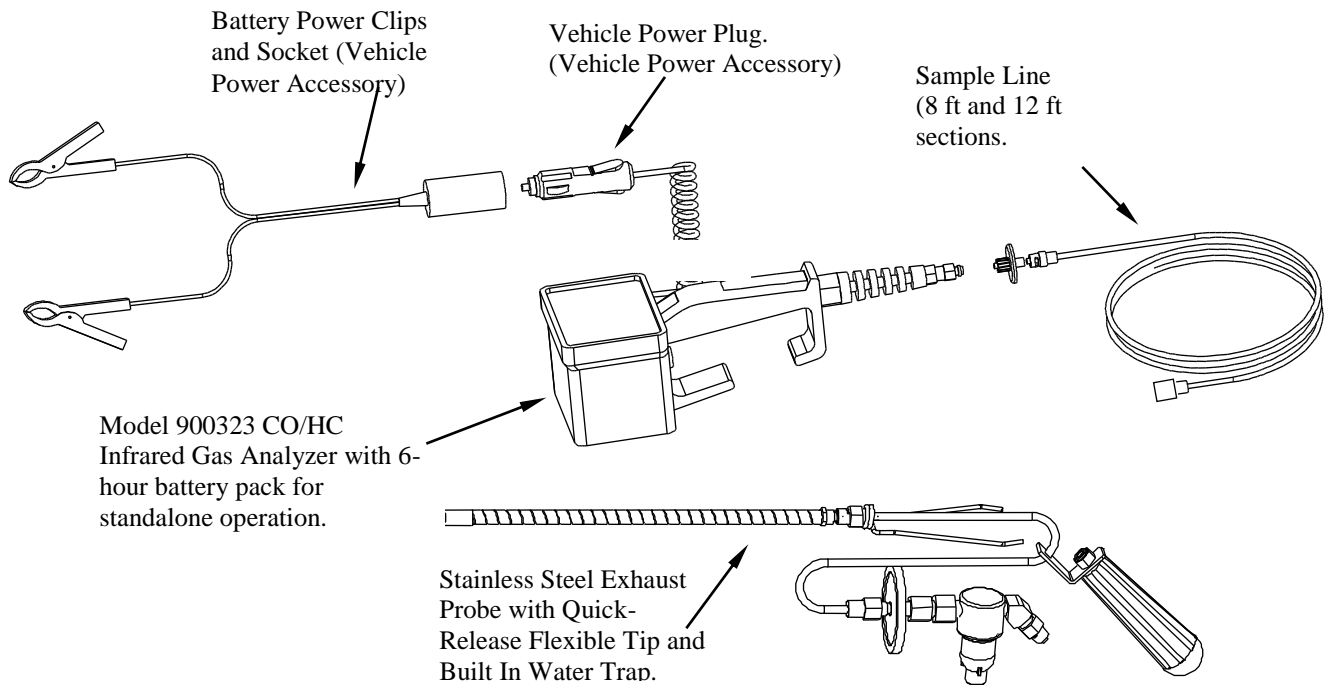
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### **Model 900323 Product Configuration:**

The Model 900323 includes a built in battery pack for cordless operation. A battery charger power pack is included, as well as vehicle power accessories for charging the power pack or operating the analyzer from vehicle power, if desired.



### **Model 900323 Overview:**

For years, CO and HC have been used for performance tuning – but the 2-Gas analyzers being used today are 25 years old! The Model 900323 is a modern microprocessor-controlled full-featured two gas (CO & HC) gas analyzer that offers you the unparalleled convenience of a hand-held with the reliability and simplicity of a modern digital gas analyzer. The size and power inherent in this instrument results in the simplest and easiest to use gas analyzer for performance tuning.

#### **Performance you can count on:**

The Model 900323 has been in production for over 6 years, with hundreds of installations, and has proven to be one of the most reliable gas analyzers available. It provides accurate gas measurement in a simple, reliable package – a perfect tool for basic gas analyzer based diagnostics and tuning.

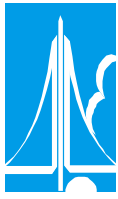
The Model 900323 analyzer has been specified as the analyzer of choice for major motorcycle manufacturers – and is listed as a necessary dealer tool for performance tuning.

#### **Flexible Operation on any engine:**

The 900323 is a low flow analyzer with superior gas filtering – enabling it to be used on 2 cycle or even diesel engines without concern of analyzer contamination. The low gas sampling rate does not mitigate the analyzer response time – it is still one of the fastest gas analyzers around.

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**Complete and ready to go:**

The Model 900323 includes a built-in battery pack which provides 6 hours of cordless operation per charge. Battery charging power pack, exhaust probe and hose, cigarette lighter power plug and cable, vehicle battery clips, spare filter pack, carrying/storage case and manual are included. The analyzer is complete and ready to go as delivered.

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**Model 900323 Specifications:**

<b>Analysis Method:</b>	CO, HC: NDIR (Non Dispersive Infra-Red)
<b>Reporting Ranges:</b>	CO: 0-10.00%, HC (Hexane and Propane): 0-9,999 ppm, HC (Methane) 0.000-5.000%
<b>Accuracy:</b>	All gas channels $\pm 5\%$ relative to gas reading.
<b>Response Time:</b>	Less than 10 Seconds to 90% final value. (8 ft sample line)
<b>Data Display:</b>	3 & 4 digit, 0.50 inch 'Super Bright' red LED 7-segment display, updated 4 times per second.
<b>Warm-up Time:</b>	30 seconds to 10% relative accuracy. Less than 5 minutes to full accuracy. (Constant external ambient conditions)
<b>Built-In Battery Pack :</b>	Rechargeable NiMH battery pack with On/Off switch, 6 hours typical continuous operation per charge.
<b>AC Power Pack:</b>	Wall-mounted 110 VAC/60 Hz Std., (95-220VAC/50-60 HZ optional) remote supply for charging battery pack or continuous analyzer operation from mains.
<b>Vehicle Power:</b>	Adapters to clip-onto +12V vehicle battery or plug into vehicle power socket.
<b>Size:</b>	Main Body: 3.13"H x 4.50"W x 3.25"D Total Including Handle and Strain-relief: 12.0"H x 4.50"W x 3.25"D Built-in carrying handle.
<b>Weight:</b>	Less than 2 lbs. Including Hose and Probe: less than 4 lbs.
<b>PC Interface:</b>	DB9 RS-232 Connector, 9600 baud. (Data Display/Storage Report Printing Accessible with Bridge PC Software – P/N 106460)
<b>Filter Life:</b>	Primary Filter (50 mm dia): 2 Months, typical. Water Trap Filter (4 mm dia): 4 Months, typical. Analyzer Filter (25 mm dia): 4 months, typical.
<b>Gas Calibration:</b>	Fully calibrated from factory. No periodic re-calibration required. Uses standard BAR automotive calibration gases if desired for field calibration. (Requires P/N 000690)

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calibration gas adapter/regulator.)

**Sample Hose:**

1 ea 8 ft & 12 ft sections – (20 ft total length) 3/32 thick-wall tubing, with quick disconnect fittings.

**Temperature:**

–10 to +40 degrees C ambient.

**Altitude:**

–100 to + 7,000 feet above mean sea level.

**Reliability:**

10,000 hrs MTBF.

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