

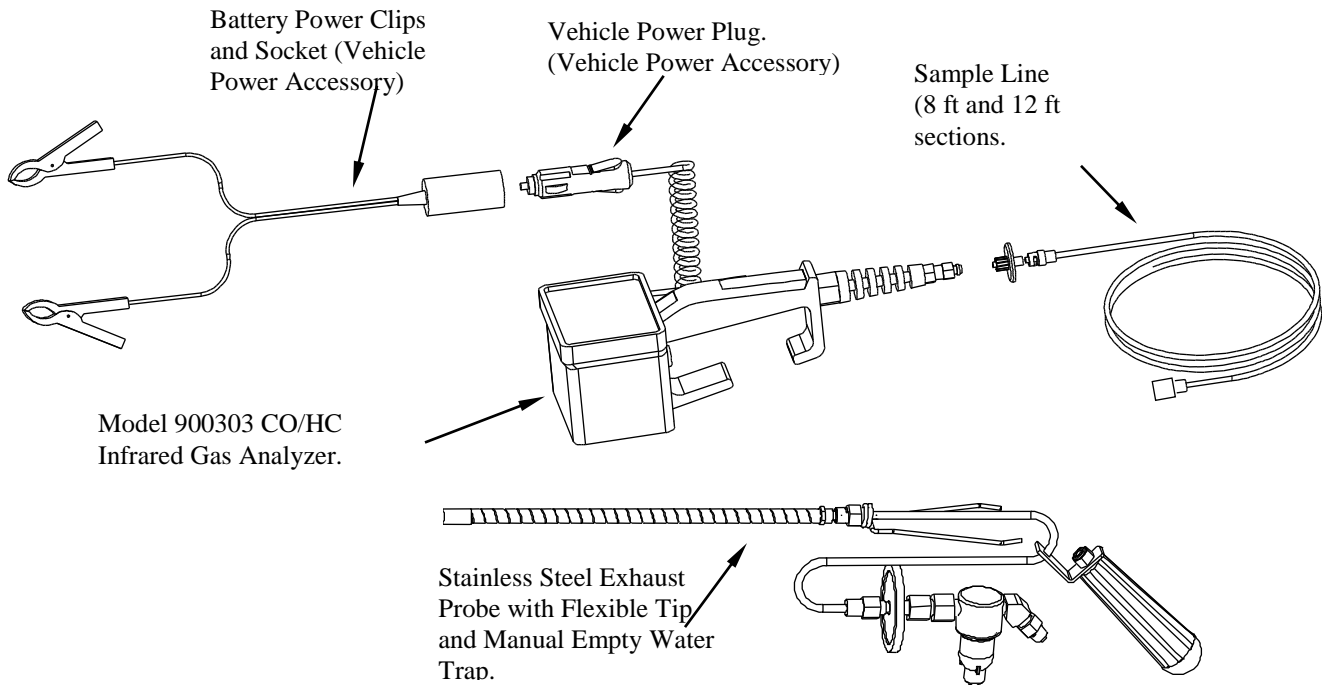
## Model 900303 Product Description and Specifications



### Model 900303 External Power Hand-Held 2 Gas (CO/HC) Analyzer

- A fully infrared CO/HC gas analyzer that you can hold in your hand.
- Identical to larger machines, uses time proven NDIR technology for reliable, accurate gas measurement in a modern small instrument.
- Instantly power on using vehicle 12VDC power – pick up, hook up, and analyze. The simplest, lowest cost exhaust gas analyzer for motorcycle, forklift and engine tuning using CO and HC gas measurements.
- Fast – stable readings - updates gas readings 4 times per second for fast tuning response.
- Fuel selection feature for Gasoline, Propane, or CNG fueled vehicles.
- Rugged, simple to use – all digital design provides reliability with ease of use. Zero calibrates on room air in 30 seconds by removing the probe from the tailpipe, letting readings stabilize and pushing Zero button. Water trap built into probe – just empty it at the end of gas testing.

**Model 900303 Product Configuration:**

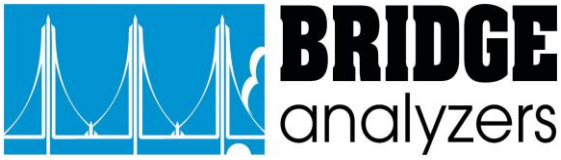


**Model 900303 Overview:**

For many years, CO and HC have been used as a basis for performance tuning. The Model 900303 is a modern infrared and microprocessor-controlled full-featured two gas (CO & HC) 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 of this instrument makes it the simplest and easiest to use performance tuning gas analyzer.

**Performance you can count on:**

The Model 900303 has been in production for over 15 years 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 900303 analyzer has been specified as an analyzer of choice for major motorcycle, performance car and forklift manufacturers. It is listed as a necessary dealer tool for performance tuning.

**Flexible Operation on any engine:**

The 900303 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.

**Complete and ready to operate:**

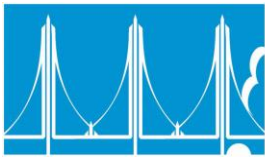
The Model 900303 includes all the accessories required for long-term operation - exhaust probe and hose, cigarette lighter power plug and cable, vehicle battery clips, spare filter pack, carrying/storage case and manual are included. The analyzer is complete and ready to use as delivered.

**Model 900303 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>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>Manual Functions:</b>	Manual Zero – remove probe from tailpipe to Zero on room air. Manual emptying of water trap at the end of use.

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analyzers

- Filter Life:** 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.
- Gas Calibration:** Fully calibrated from factory. No periodic re-calibration required. Uses standard BAR automotive calibration gases if desired for field calibration.
- 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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