

5 GAS COMBUSTION ANALYZER

UNLOCK THE MYSTERIES OF COMBUSTION CHEMISTRY

Model 8000 HP is a portable stand alone unit able to test a vehicle in your shop or on the road. Power is supplied by a 110/220 VAC/DC converter or 12 VDC.

The 8000 HP has an upgraded sample system for faster gas reaction time and heavy duty filtration system. Dyno interface with the EMS ADC Module for Dyno analog inputs. The 8000 HP model uses all updated electronics and the unit is compact featuring robust metal housing designed to withstand the most difficult shop or mobile environments.

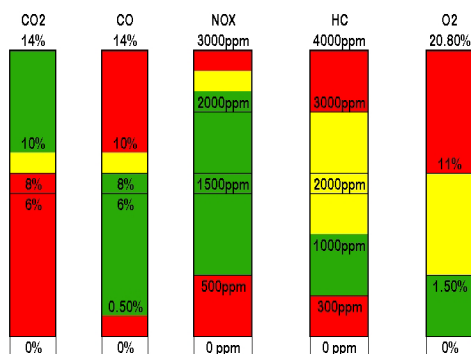


- Updated electronics
- ADC Module with 8 inputs
- Multiple sample Hose Probe attachments
- Heavy duty filter/sampling systems
- 1 yr. Parts & labor warranty
- Lifetime Service contact available
- Made in USA

**MAKE MORE HP SNIFFING THE POOP: ACCELERATE YOUR CUSTOMERS
PAST THEIR COMPETITION BY USING AN EMS 5 GAS ANALYZER**

EXHAUST SAMPLE HOSE CONN.

WHAT DO THE COMBUSTION GASES MEAN HOW DO I USE THEM WITH A 5 GAS ANALYZER

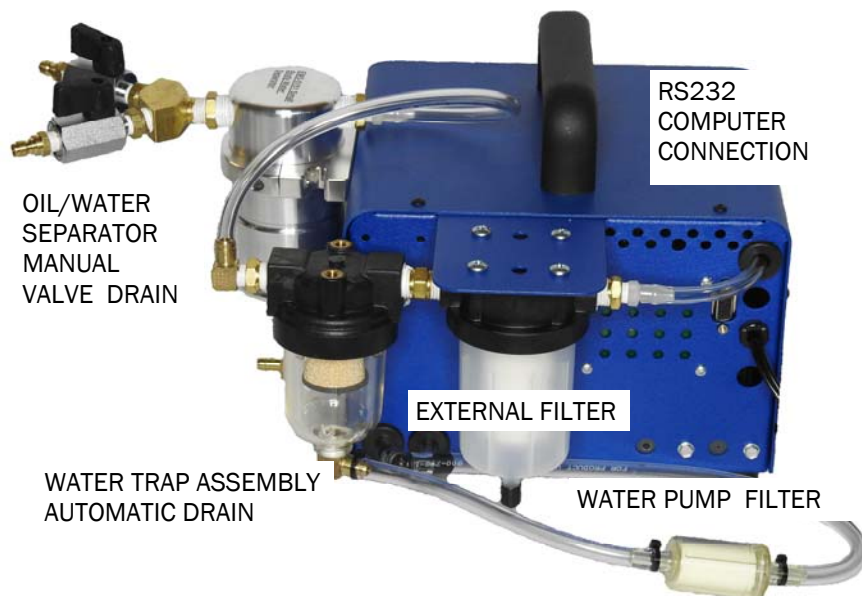


GREEN is an desired range to be in

Yellow is a acceptable area to be in as long as other gases are not in the RED

Red is an area to use EXTREME CAUTION in

The bar chart above shows acceptable exhaust gas ranges for CO2, CO,NOX, HC and O2. These are general that would apply to most engines and base line readings



Specifications EMS 8000 HP Model:

- Power: 10 -16 VDC
- Ranges:
 - HC: 0 - 2000 ppm Low Range
 - HC: 0-20,000 ppm High Range
 - CO: 0 - 10%
 - CO2: 0 - 20%
 - O2: 0 - 25%
 - NO: 0 - 5000 ppm (Nitric Oxide) *
- Warm up: Less than 5 minutes
- Display resolution:
 - HC: 1 ppm vol.
 - CO: 0.01% vol.
 - CO2: 0.1% vol.
 - O2: 0.01% vol.
 - NO: 1ppm*
- Software display: Display the 5 gases, AFR & LAMBDA & 8 Analog Inputs
- Accuracy (Bar 97 EPA ASM)
 - HC: 4 ppm HC
 - CO: 0.02% CO
 - CO2: 0.3% CO2
 - O2: 0.1% O2
 - NO: 25 ppm*
- Drift: Zero and span drift are less than $\pm 0.6\%$ of full scale for the first hour and less than $\pm 0.4\%$ of full scale per hour thereafter.
- System response time: Bench: 1.5 Sec/11 ft. hose 5 sec. to final reading
- Ambient conditions: 35F (2C) to 120F (45C), rel. humidity 0-98%
- Sample hose: 25 feet (7.5 m) with QD coupling /200 F Degrees Max.
- Sample probe: Stainless steel 1200 Degrees F (replaceable flex tip)
- Mass: Approx.: 10 LBS. (4.5 Kg)

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