

HM5000 HANDHELD GAS ANALYZER

Fast • Compact • Accurate

HM5000 Features:

- Internal rechargeable battery
- Multi-language LCD display
- Measures up to 5 gases: HC, CO, CO₂, O₂, and NO_x
- Calculates AFR and Lambda
- Measures RPM
- Built in data recorder
- Fast warm-up: less than 30 seconds



POCKET SIZE POWER FOR REAL WORLD PERFORMANCE

Compact, fast responding, and accurate, the HM5000 from Infrared Industries has it all. The HM5000 allows you to dial in the most amount of power your engine can deliver in a fraction of the time. More power in less time equals more money in your pocket and happier customers. It just doesn't get any better than that.

Connect the HM5000 to your vehicle's exhaust while you drive and in less than a second you'll see the composition of the exhaust gas. You'll know exactly how much Hydrocarbons (HC), Carbon Monoxide (CO), Carbon Dioxide (CO₂), Oxygen (O₂), and Oxides of Nitrogen (NO_x) your vehicle is emitting.

You not only get instantaneous readings of up to five gases, you also get Air to Fuel (AFR) Ratio, Grams Per Mile (GPM), and Lambda, which help you in tuning that difficult carburetor or injection system. The HM5000 can also measure and record your vehicle's engine speed along with all five gases. The combination of five gases and Tach give you all you need to tune or troubleshoot your engine at various RPMs.

HM5000 interfaces to a PC or a PDA for added control, display, and graphing capability. You can even record all the data in the HM5000 while you're on a road test or taking laps around the track. When you return, just connect the HM5000 to a PC and download a history of your test drive for analysis or simply relay it to the analyzer display.

No need to spend a fortune on a dyno to simulate road conditions; run that engine in the REAL world. Get better results with less investment. Now that's a win-win!

COMPARE IT TO THE COMPETITION!

HM5000

- Measures all five gases
- Is completely self-contained
- Has a 2% full-scale accuracy and 2-second response time
- Has internal water separator and purge pump that continuously remove water from the exhaust

COMPETITION

- Most calculate or guesstimate gases
- Has a box of attachments that feel like a tote-along suitcase
- Has only 5%+ accuracy and 16-20 seconds response time
- Uses water traps, which require constant service

Five gases, AFR, RPM, Lambda, data record, and competition-busting prices put Infrared Industries on top!

HANDHELD GAS ANALYZER

APPLICATIONS

- Adjust fuel injection or carburetor mixture
- Perform road testing on the go
- Detect fuel or emission-related problems
- Verify carburetor mixture
- Measure air pump performance
- Measure catalytic converter performance
- Find vacuum and exhaust leaks
- Check for smog
- Check PVC system
- Measure engine RPM for 2- and 4-stroke or rotary engines

ACCESSORIES

Included:

Oxygen Sensor, Sample Hose, Rechargeable Battery, and Serial Cable

Optional:

NOx Sensor, Tach Pickup Cable, Motorcycle Adapter Fittings, PC Software, Analog Outputs, and Extended Warranty

HM5000 Specifications

Display	Backlit LCD, Graphic, 128x64, multi-language (English, Spanish, Arabic)
External Power	10-16VDC, less than 1A
Internal Power	Rechargeable Lithium Ion Battery Pack
Gases · NDIR	HC, CO, and CO ₂
Gases · ElectroChemical Cell	O ₂ and NOx
Operating Temperature	35° to 110° F
Size	7.5" x 3.5" x 2"
Weight	Less than 2 pounds
Outputs	RS232
PROBE	
Material	Pistol Grip with Stainless Steel
Hose Length	10'
Requirements	BAR 90/97
Insertion Length	Up to 27"

SENSORS

Gas	Range	Resolution	Accuracy
Hydrocarbons (HC)	0-10,000 ppm	1 ppm	+/- 2%
Carbon Monoxide (CO)	0-10%	0.01%	+/- 2%
Carbon Dioxide (CO ₂)	0-20%	0.01%	+/- 2%
Oxygen (O ₂)	0-25%	0.01%	+/- 1%
Nitric Oxide (NOx) (Optional)	0-5,000 ppm	1 ppm	+/- 2%