

DC 5 GAS ANALYZER

Look no farther than the DC-5 GAS for your gas analyzer needs. This all-in-one, portable machine meets BAR and OIML standards and will provide you with an emission diagnostics and trouble-shooting tool that will drastically reduce your diagnostic and tune-up time.

DC-5 GAS analyzer measures five emission gases, including Hydrocarbons (HC), Carbon Monoxide (CO), Carbon Dioxide (CO₂), Oxygen (O₂) and Oxides of Nitrogen (NOX). Based on gas concentrations,

DC-5 GAS will calculate the Air to Fuel Ratio (AFR), Lambda (λ) and Grams per Mile (GPM). It will also provide a read-out for an optional Tachometer that handles up to 30,000 RPM. With this much information in one place, you can diagnose and tune any fuel-related issues while having all of the relevant information displayed in six super-bright, oversized displays.

In addition to the above features, you can measure exhaust gases from two tail pipes and average the readings or set up an exhaust dilution value to warn you if there are air-leaks in the exhaust system. With the standard 12VDC jack in addition to the 110VAC-230VAC, you can connect the DC-5 GAS to the car battery or cigarette lighter and take it along for a drive test to see how the vehicle behaves in real driving situations. You can use the internal record feature to store all eight parameters and download the information to a PC when you return.

FEATURES

- Six windows with 0.8" super-bright 4-digit LEDs
- Measures 5 gases: HC, CO, CO₂, O₂ and NOX
- Measures RPM for 2 or 4 stroke engines
- Calculates AFR and Lambda
- BAR90 certified
- Easy to follow menu structure
- Menus in plain English
- Readings response time 3 seconds
- RS232 interface
- Windows software
- Built-in data recorder
- Dual exhaust measurement
- Exhaust dilution warning
- Auto-zero for maintaining high accuracy
- Flow indicator
- Pump switch for gas purging
- Grams per mile calculation

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Diagnostics and Performance Tool

Range:

HC Hydrocarbons 0-10,000 PPM (n-Hexane)

CO Carbon Monoxide 0-10%

CO₂ Carbon Dioxide 0-20%

O₂ Oxygen 0-25%

NOX Oxides of Nitrogen 1-5,000 PPM

TACH Tachometer 0-30,000 RPM (Displayed as kRPM = 1,000 RPM)

AFR Air to Fuel Ratio 0-50 Lambda 0-5

GPM Grams per Mile

Display:

HC, CO, CO₂, O₂ NOX, AFR, ?, kRPM, GPM user selectable

Principle:

HC, CO, CO₂ Non-dispersive Infrared (NDIR) O₂,NOX Chemical Cell

Warm-Up Time:

Five minutes or less

Accuracy:

BAR-90 certified

Meets BAR-97 performance specifications

Canada's AirCare certified

Meets or exceeds OIML Class I gas standards

AC Power:

110VAC / 220VAC +/- 10%, 50/60 Hz

0.5A / 0.3A max

DC Power:

10VDC - 16VDC

1.5A nominal, 3.5A max

Weight:

9 Lbs. (4.1 kg)

Size (W x L x H):

13.2" x 10.8" x 6.5"

33.5 cm x 27.4 cm x 16.5 cm

Temperature:

DC 5 GAS ANALYZER

2°C to 45°C (35.6°F to 113°F) Operating
-40°C to 75°C (-40°F to 167°F) Storage

Warranty:

One year standard



Accurate

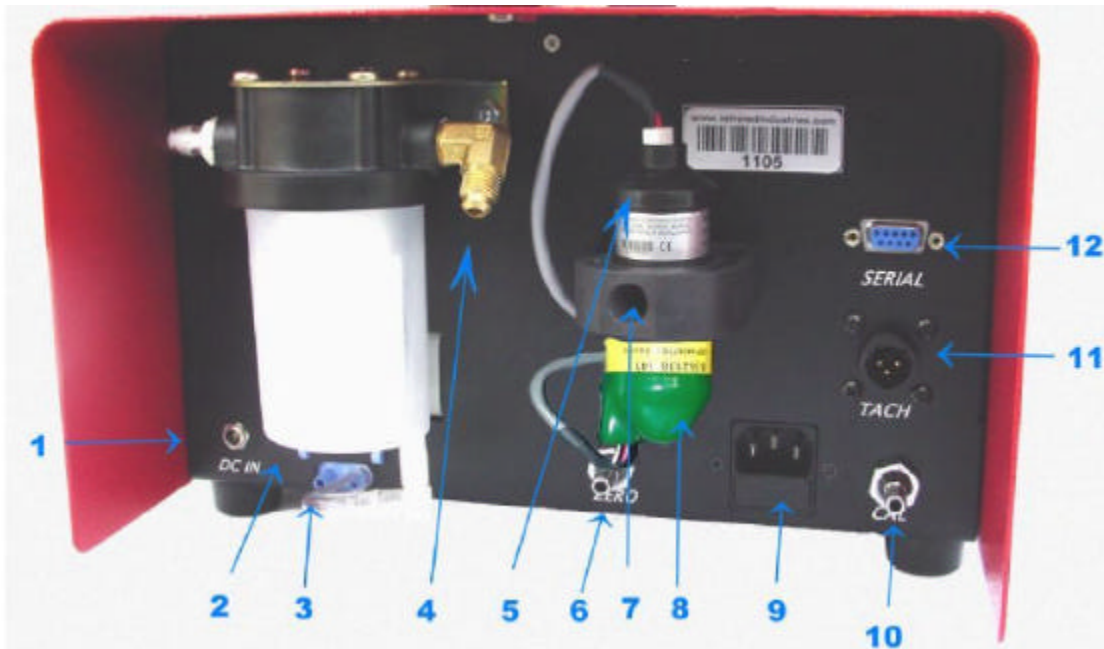


Portable



Dynamic

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[1] 12 Volt DC Power Connector

[2] Primary Pneumatic

[3] Water Purge Port

[4] Sample Hose Connector

[5] O2 Cell

[6] Zero Port

[7] Sample Gas Exhaust Port

[8] Nox cell (5 gas only)

[9] AC Input Jack and Fuse Block

[10] Calibration Port

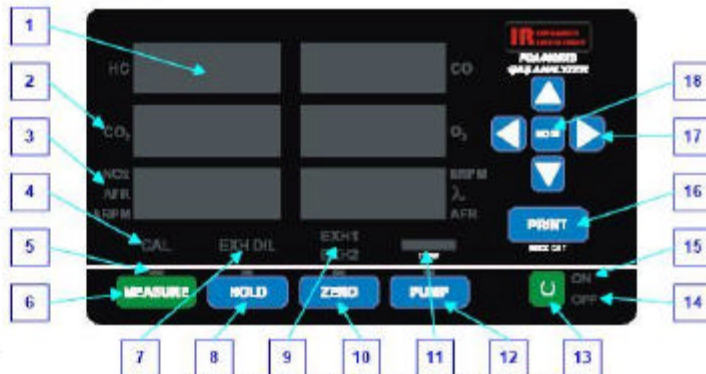
[11] TACH Connector

[12] Serial Connector

DC 5 GAS front panel can display six parameters: Four fixed parameters (HC, CO, CO₂, and O₂) and any two user-selectable parameters from NOx.

Identifying Parts

- [1] 4-Digit LED window x6
- [2] Fixed Window identifier x4.
- [3] User-Selectable Window Identifier x2.
- [4] Calibration Indicator. On in Calibration Mode, Blink when performing Calibration Calculation with Cal gas present.
- [5] Button Identifiers x4. On or Blink when button is selected, Off when de-selected.
- [6] Measure Button. Press to begin measure mode. Pump is turned on automatically in measure mode.
- [7] Exhaust Dilution Indicator. On when Dilution Mode is selected, Blink when Dilution has occurred.
- [8] Hold Button. Freezes all six display parameters in Measure mode only. Blinks when in Hold.
- [9] Dual Exhaust Mode. Indicates which exhaust pipe the sampling probe should be in.
- [10] Zero Button. Zeros the analyzer for approx. 1 minute. Pump is automatically controlled during zero.
- [11] Flow Indicator. During pump's operation, all bars will be on. In case of a flow restriction in the gas sampling system, the bars will turn off starting from right side indicating flow restriction. In case of total restriction, the first segment will blink indicating no flow.
- [12] Pump Button. Allows manual on/off operation of the pump. Can be used to purge gas from the analyzer.
- [13] Power Button. Push momentarily to turn on the analyzer. Push & Hold for 2 seconds to turn off the analyzer.
- [14] OFF indicator. Indicates the analyzer is plugged into a power source but it is off.



- [15] ON indicator. Indicates the analyzer is on and operational.
- [16] Print / Mode Exit button. In Measure or standby mode, the button will start the optional built-in or external printer. When in mode selection process, indicated by Mode button [16], Print / Mode exit button will terminate the mode selection and go back to standby mode.
- [17] Arrow buttons x4. Used to navigate when in Mode selection operation.
- [18] Mode Button. Enters the mode selection operation where different aspects of the analyzer can be set up or changed. Refer to the Mode Selection section for more detail.